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# User Requirements for an Advanced Technology Unit Training Management System (ATUTMS)

Presidio of Monterey Field Unit  
Training Research Laboratory

February 1985



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Research Product 85-07

## **User Requirements for an Advanced Technology Unit Training Management System (ATUTMS)**

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**Education and Training**

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## FOREWORD

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Published here is the initial report from a research program that produced the first fully integrated computer system designed for battalion training management. The system data base included individual and collective training records, and the records for personnel and logistics. A single mini-computer was centrally installed in a test battalion and networked to terminals located in all key offices. The primary software tools were a relational data base management system and a word processing program. This report documents the user needs analysis that provided the basis for system hardware selection and software design.

Battalion training management is exceedingly difficult to perform well for a variety of reasons. To keep track of the training needs of individual soldiers and their teams, squads and larger units, training managers and trainers must rely on incomplete, unreliable paper-based record-keeping systems or even less reliable human memory. Since battalions consist of hundreds of soldiers holding a variety of jobs, with each job requiring performance of hundreds of job tasks, and since there are also dozens of units (teams, squads, platoons, etc.) also having multiple tasks required for combat missions, the identification of training needs is a formidable job. Constructing unit training schedules based on the identified needs is also difficult to do well, since soldiers, their units, trainers, evaluators, vehicles, weapons, equipment, fuel, ammunition, food, water, and training ranges all must be coordinated in competition with other requirements. The ongoing Force Modernization Program further complicates training management by increasing the number of job-tasks to be taught, while decreasing the knowledge and experience available to efficiently manage and effectively conduct training.

This research program was a logical next step after two earlier efforts by the Presidio of Monterey Field Unit in the area of Army-unit training management: (1) work between 1975 and 1978 to design the Battalion Training Management System; and (2) research between 1979 and 1982 into the causes and cures for problems in unit garrison management. The research sponsors were the Army Training Board for the Army Training Support Center, and the Army Development and Employment Agency, which funded portions of the work.



EDGAR M. JOHNSON  
Technical Director

## ACKNOWLEDGMENTS

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A great many people contributed to the formulation of requirements for ATUTMS, and subsequently to the design and implementation of the testbed at the 9th Infantry Division, Fort Lewis, Washington.

Jack Hiller of the Army Research Institute for the Behavioral and Social Sciences (ARI) was the originator of the project, and served as the Army's Project Officer from inception. Dr. Hiller spent a great deal of time with the JPL project team during the crucial system definition phase, and personally arranged for the cooperation of Army units and agencies vital to this field experiment.

Several other ARI staff members provided valuable assistance at key points in the project. Major Thomas Jones played a major role in familiarizing the JPL project team with the administrative environment of a combat unit, and provided manuals and other documentation which were essential to the specification of the personnel and training functions within ATUTMS. Lieutenant Colonel Eugene Livermore served a similar role with respect to logistics management. Mr. Guthrie D. Hardy, Mr. Patrick Whitmarsh, and Sergeant Eldra Jackson, Jr. assisted throughout the effort by assembling Army forms and other data relevant to ATUTMS' scope, critiquing the requirements and system design, preparing data to initialize the system, and steering the project team to appropriate sources of information on training management.

The authors also wish to express appreciation to Captain Rory Miott, FORSCOM, Fort McPherson, Georgia, for demonstrating the capabilities of FMACS (the Army's currently fielded computer system for unit training management), and for arranging visits with several Army units which have been exploring the use of microcomputers.

Vital to project success has been the close cooperation and continuing support of Lieutenant Colonel Dale Hedgpeth and Lieutenant Colonel Elbert Black of the Army Development and Employment Agency, Fort Lewis, Washington; Colonel J. H. Binford Peay III and Major Dees Stallings of Division Artillery, 9th Infantry Division; and the men of the 1st Battalion, 11th Field Artillery (1/11 FA), who provided a testbed for the demonstration of the ATUTMS system. Lieutenant Colonel Nick C. Harris, commanding officer of the 1/11 FA, his staff, and subordinate commanders provided invaluable assistance in translating concepts and ideas into lists of data, report formats, and processing details.

Several individuals of 1/11 FA should be acknowledged for the rather considerable amount of time and effort they devoted to this project--very often in discussions which extended well beyond normal working hours. Major Ronald Cochran served as the point of contact and was actively involved in all phases of system specification, design, and implementation. Captain Kenneth Borel, Captain Terrence Smith, and Sergeant Chuck Cunningham cheerfully spent many hours defining the content of the ATUTMS personnel data base and preformatted reports of personnel status. Captain David

Swindell, Captain Cory Manka, and Warrant Officer Larry Goulet provided similar guidance in defining the logistics portion of ATUTMS. Lieutenant Colonel Harris, Major Cochran, Captain Curtis Lupo, Captain Swindell, and Captain Todd Scholz were the principal architects of the training data base, and preformatted summaries of collective and individual training status.

The authors would also like to acknowledge the many helpful suggestions and comments made by Alfred Silliman, the JPL project manager, and Anita Benson and Thomas Antczak, fellow members of the JPL team responsible for designing and implementing ATUTMS. Finally, we wish to express appreciation to Dorothy Johnson and Shirley Stroup for skillfully typing and retyping the many versions of the manuscript, and to Joyce Murray who provided editorial assistance.

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soldiers. A major consideration in system design was the development of a unified status reporting capability that incorporates information essential for training management while minimizing overlap with other automated systems. During FY 1984 the 1st Battalion, 11th Field Artillery (1/11 FA), 9th Infantry Division, Fort Lewis, Washington, hosted a demonstration of ATUTMS, using nonprogrammable work stations linked to a small minicomputer. *Keywords:*

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## GLOSSARY

ADEA	Army Development and Employment Agency, based at Ft. Lewis, Washington (formerly the High Technology Test Bed).
ALO	Authorized Level of Organization; the percent manpower fill which is authorized under a unit's current Modified Table of Organization and Equipment.
APFT	Army Physical Fitness Training.
AR	Army Regulation.
ARTEP	Army Training and Evaluation Program; a set of formal field exercises used to train a maneuver unit and assess its readiness for combat.
ARTY	Artillery.
ASI	Additional skill identifier; associated with Military Occupation Specialty.
Assigned	The amount of personnel or materiel which is actually assigned to a unit.
ATUTMS	Advanced Technology Unit Training and Management System.
Authorized	The amount of personnel or materiel authorized by the current MTOE.
AWOL	Absent without leave.
Bn	Battalion.
BPOC	Battalion Personnel Operations Center; the battalion-level organization which handles personnel record keeping; the BPOC reports to the battalion S3.
Btry	Battery; see Co.
Cmdr	Commander.
Co	Company, or equivalently, a battery in an artillery battalion.
CONUS	Continental United States.
CPU	Central processing unit; that portion of a computer which does arithmetic operations and manages data flows internal to the system.
DA	Department of the Army.
DC <sup>31</sup>	Distributed command, control, communication, and intelligence.

**DBMS** Data base management system; the management of data within an automated system; typically, such a system enables a user to easily access, via queries, various subsets of data included within this data base.

**Deployable** Refers to both personnel and materiel which are assigned to a unit and designated as capable of being sent abroad on an actual or simulated combat assignment.

**Div** Division.

**Diversion** A soldier who is assigned to a unit but has not been assigned responsibilities recognized by the MTOE as a duty position within the unit is labeled a diversion; see SD.

**DLOGS/DS4** Division Logistics System; automated system for property book accounting for supply classes II, IV, and VII; DS4 is the current version.

**DODIC** Department of Defense Inventory Code; a sequence of numbers and letters used to identify standard items of equipment and supplies.

**E1, E2, E3, etc.** Code identifying an enlisted man's grade; E1 is Private, E2 is Corporal, etc.

**EAT** Emergency Action Team; members of the EAT are a subset of the Personnel Reliability Program, a cadre of soldiers responsible for handling the host unit's special weapons.

**EDRE** Emergency Deployment Readiness Exercise.

**ERC** Equipment Readiness Code; an MTOE code which indicates the degree to which a piece of equipment is essential to a unit's ability to perform its primary mission.

**ETS** Estimated Time of Separation; the date upon which a soldier is scheduled to be discharged from the Army; 14 days prior to ETS, a soldier is regarded as not deployable abroad.

**Exec** Battalion Executive Officer.

**FA** Field Artillery.

**Fill** The degree to which a unit has the amount of manpower assigned which is required to perform its primary mission; fill is normally expressed as a percentage.

**Flag** A past or pending derogatory personnel action against an individual soldier, such as, court martial, AWOL, citation for drug abuse, etc.

**FORSCOM** Forces Command; the command within which the Army's combat units reside.

FS Fire support.

GO, NO-GO A summary assessment that a soldier, or unit, or a piece of equipment is capable of satisfactorily performing a specified task; commonly used in evaluating individual and collective training.

HFL Headquarters, Fort Lewis; used to identify forms which originate at Fort Lewis, Washington.

HHB Headquarters and Headquarters Battery; a battalion's command group.

HQ Headquarters, a unit's command group.

HTPS High Technology Personnel system; an extended version of SIDPERS which will support both combat and force deployment abroad; HTPS is being developed as a prototype for the 9th Infantry Division, Fort Lewis, Washington, by the Soldier Support Center, Fort Benjamin Harrison, Indiana.

JUMPS Joint Uniform Military Pay System; Army payroll system.

LIN Refers to a line item (typically a type of equipment) in the unit's MTOE.

MACOM Major Command, used to designate a primary grouping of personnel within the Army; examples of MACOM's which have an interest in ATUTMS are Forces Command (FORSCOM), Training and Doctrine Command (TRADOC), and Materiel Development and Readiness Command (DARCOM).

MILPO Military Personnel Office; that function of any Army installation or post which handles personnel matters for all resident units.

MOPP Mission Oriented Protective Posture; refers to the type of clothing and other protective devices worn to enhance survival in an NBC environment.

MOS Military Occupational Specialty; a prescribed set of skills used by a soldier in his assigned duty position; infantryman, cannoneer, mechanic, clerk, etc. are examples of the MOS's required by a unit.

MTOE Modified Table of Organization and Equipment; a tabulation of personnel (by duty position, MOS, and grade), weapons, supporting equipment, and supplies required for a unit to fulfill its primary mission.

NBC Nuclear, Biological, and Chemical (weapons).

NCO Noncommissioned officer.

O1, O2, O3, etc. Code for an officer's grade; O1 is 2nd Lieutenant, O2 is 1st Lieutenant, O3 is Captain, etc.

Pacer, Pacing Item	Equipment which is essential to a unit's ability to perform its primary mission; in the case of 1/11 FA, M198 howitzers are pacing items.
PCS	Permanent Change of Station; refers to the permanent reassignment of a soldier to a new post or duty station.
PLL	Prescribed load list; a list of items stocked by the unit during normal operations in order to facilitate rapid repair of vehicles and other major end items.
PMOS	Primary Military Occupational Specialty; see MOS.
Profile, or Medical Profile	A set of officially recognized physical deficiencies which limit the duty that can be assigned to a soldier.
PRP	Personnel Reliability Program; within a field artillery unit, a cadre which has the primary responsibility for the unit's special weapons.
REDCON	Readiness Condition; an overall, subjective assessment of a unit's posture in a particular area or its readiness to fulfill its primary mission; REDCON is coded as 1-4, with 1 being the highest state of readiness.
Required	The amount of personnel or materiel required to perform the unit's primary mission, according to the current MTOE.
S1, 2, 3, 4	Battalion staff officer for personnel; intelligence; operations and training; and logistics; respectively.
SAS	Sealed Authenticator System; system for authorizing classified data.
SD	Special Duty; duty in lieu of the duty assignment indicated for a soldier in his organization's Unit Manning Report; the normal assignment is called his "duty position".
SIDPERS	Standard Installation Division Personnel System; the Army's standard automated soldier information system.
SMART	Supply and Maintenance Assessment and Review Team; a project in innovative systems sponsored by the Army Logistics Center, Fort Lee, Virginia.
SMOS	Secondary Military Occupational Specialty; see MOS.
SVC	Service Battery; the battalion organization that handles supplies and maintains equipment.
TACCS	Tactical Army Combat Service Support Computer System; a new computer system to support personnel and logistics management at the battalion level, to be implemented in fiscal 1984.

TACFIRE	Tactical Fire Direction System; computerized fire control system for field use.
TACOPS	Tactical Operation Paperless System; a system to support parts ordering and the maintenance and repair of major end items; TACOPS is being developed at Fort Stewart, Georgia, under the sponsorship of the Army Logistics Center.
TAMMS	The Army Maintenance Management System.
TDY	Temporary duty.
TMACS	Training Management and Costing System; an automated system for planning, scheduling, and budgeting a unit's training activities.
TMOS	Team Military Occupational Specialty; an MOS defined by the duty requirements of membership in a special team, such as, Advance Party, Anti-Tank, NBC, Survey and Monitor, etc.
USR	Unit Status Report; a periodic report to higher echelons assessing a unit's readiness to perform its primary mission; the Army requires a unit status report monthly on Form DA 2715 from organizations of battalion size and larger.
WO	Warrant Officer.
XO	Executive Officer; the commander's alternate and primary assistant.
1/11 or 1/11 FA	The 1st Battalion, 11th Field Artillery, an element of Division Artillery of the 9th Infantry Division, Fort Lewis, Washington. This battalion will host the initial application of ATUTMS within the Army.

## SECTION 1

### PROJECT RATIONALE

As discussed in the recently published report on training detractors (Hiller, 1982), the management of a battalion and its subordinate units typically requires a great deal of time devoted to administrative paperwork without reaping great benefits in terms of useful data on unit readiness. In particular:

- o The bulk of administrative and clerical effort is consumed in preparation of forms necessary to sustain day-to-day operations (e.g., requisitions for supplies, requests for maintenance/repair, requests for leave) with correspondingly reduced effort available to improve operational capability or readiness.
- o The information included on unit status reports which are required by higher echelons is not totally adequate to the battalion commander's needs or desires. Indeed, much of the current information on training is based primarily on subjective data.
- o There is a proliferation of non-interfering, automated systems, each designed to serve the needs of a particular function. Moreover, those automated systems not under control of the battalion (notably SIDPERS and DLOGS) often contain information which lacks in timeliness or accuracy with corresponding reductions in the usefulness of the information. Indeed, considerable effort is expended on a continuing basis to update the data in these automated systems.
- o A good many of the errors (and the need for subsequent effort to find and correct errors) is caused by a lack of quality control or data input discipline at the time a form is generated. Verification of input is not easy to do in a manual system.
- o Quick response to ad hoc queries by the battalion commander or higher echelons is a continuing need. These queries are now handled by manually analyzing computer printouts and other paper records.
- o Most units are heavily impacted by personnel turbulence, which increases the sheer volume of paperwork, and in addition, wreaks havoc with the "corporate memory." It would be very helpful if the system itself were the corporate memory. To some extent, Army Regulations (ARs) and associated forms provide this memory, with varying degrees of success.

- o Currently the Army is in the throes of a major equipment modernization and refurbishment effort which adds greatly to the training load and increases paperwork as well.
- o As a result of the factors listed above, there is proportionately little time available to plan training exercises and monitor training status. Moreover, with the exception of The Training Management and Costing System (TMACS), an automated system which is oriented toward financial reporting, few tools are available to assist unit commanders in these tasks.

In sum, it is the judgment of The Army Research Institute (ARI) that Forces Command units badly need a resident management data processing capability that would simultaneously: 1) reduce the paperwork burden, 2) provide timely data on training status, 3) simplify the task of managing equipment and supplies required for training exercises, and 4) be of general assistance to the Commander and his subordinates in managing unit operations and training, as well as handling requests for information from higher echelons. It is to be expected that additional decision support tools will be incorporated into the software as the Army gains experience with this system.

The effort required to specify, design, and implement such a system will span several years and will be organized into two phases:

- o Phase I: Baseline System for Garrison Operations will monitor the status of unit manning, vehicles, and training within the context of a data base management system; word processing, electronic mail, and graphical display of data will also be supported in Phase I.
- o Phase II: Paperless Processing will result by automating multi-step change-in-status transactions and effecting the transfer and approval of the requisite forms electronically; related developments will be the recording of unit training evaluations directly in computer compatible form and the development of an optimal, annual battalion training schedule based on perceived training needs, the commander's priorities, and resources available. Automated preparation of SIDPERS and TMACS input is also a key developmental task in Phase II.

## SECTION 2

### PROJECT OBJECTIVES AND SCOPE

It is useful to transform the general description of user needs presented in Section 1 into a formal statement of project objectives and a clarification of the scope of work envisioned in meeting those objectives. Statements made below about objectives and scope of work span the entire duration of the project; however, their relevance to each project phase will be noted.

#### 2.1 OBJECTIVES

The overall project objective is the design, development and implementation of a prototype battalion level management information system to support training management under peacetime conditions. The formal name of this system is the "Advanced Technology Unit Training and Management System" (ATUTMS). Because training management requires rather comprehensive data on unit assets -- manpower, equipment, and supplies -- ATUTMS will automate selected record keeping and reporting functions in personnel and logistics in addition to the data base and reports needed to monitor training status. The ATUTMS training module will include information about the status of

- o ARTEP\* training of the battalion and its component units.
- o Special team training (e.g., Advance Party, Survey and Monitor, Personnel Reliability Program, etc.).
- o MOS\*\* and common skills training.

The Phase I system is restricted to a garrison setting. Moreover, Phase I is limited to designing a comprehensive data base and implementing commonly used forms and status reports in each of the areas listed above. In Phase II, the number and variety of reports will be expanded, software will be developed to permit total electronic processing of multi-step change-in-status transactions within unit boundaries, and the hardware will be augmented to permit field operations in peacetime.

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\* ARTEP is the acronym for Army Training and Evaluation Program, a set of formal field exercises used to train a maneuver unit and assess its readiness for combat.

\*\* MOS is the acronym for Military Occupational Specialty, a prescribed set of skills used by a soldier in his assigned duty position; infantryman, cannoneer, mechanic, clerk, etc. are examples of the MOSs required by a unit.

The unit selected for the initial application is the 1st Battalion, 11th Field Artillery (1/11 FA), 9th Infantry Division, stationed at Fort Lewis, Washington. Although designed to satisfy the needs of a field artillery battalion, ATUTMS is intended to be applicable, with minor modifications, to all significant battalion-level units within Forces Command.

## 2.2 SCOPE OF WORK

The scope of the effort required to develop ATUTMS may be addressed along several dimensions:

- o Information content: ATUTMS will include the three areas mentioned above (personnel, logistics, and training), with training being interpreted to mean "peace time" operations; i.e., primary emphasis is placed on information required by the battalion commander, the executive officer, the S1, S3, S4, and motor pool officer. Battalion finance and closely related matters are addressed only indirectly by the current study. Additionally, information in support of command, control, and threat assessment is excluded.
- o Relationship to existing automated systems: ATUTMS will not replace the Standard Installation Division Personnel System (SIDPERS) or the Division Logistics System (DLOGS). However, it is intended that ATUTMS will provide battalion information that is both broader in scope and more timely than these existing systems. Finally, if ATUTMS meets its development objectives, it will be capable of doing much of the record keeping and resource projections now performed by the Training Management and Costing System (TMACS).
- o Relationship to automated systems under development: ATUTMS will be designed to have minimal overlap with the High Technology Personnel System (a prototype for SIDPERS-3) and analogous systems for the management of logistics (e.g., TACOPS, being developed under the aegis of Project SMART).<sup>\*</sup> It is expected that ATUTMS will go to the field to support training exercises. Accordingly, it is desirable that the mobile component of ATUTMS in Phase II be compatible with hardware previously selected for the dispersed command post prototype under development for the 9th Infantry Division.

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<sup>\*</sup> TACOPS is the acronym for Tactical Operation Paperless System. SMART is the designation for Supply and Maintenance Assessment and Review Team, a project in innovative systems sponsored by the Army Logistics Center, Fort Lee, Virginia.

### SECTION 3

#### APPROACH TO DEVELOPING DESIGN REQUIREMENTS

User requirements comprise a set of mandatory constraints and goals for desirable performance which, in the analysts' judgment, will meet the needs of those who routinely use the system. Generally, user requirements are concerned only with the salient characteristics of the system's physical environment, system inputs, and system outputs. Functional requirements consist of a set of constraints on internal system structure which, in the designer's judgment, will suffice to satisfy the user requirements. Thus, functional requirements are typically a product of top level functional analysis, customarily the first step in systems design. This report is limited to a specification of user requirements; functional requirements will be addressed separately by the designers.

Ideally, user requirements are compiled via intensive interaction with the user, including interviews; direct observation of operations; examinations of data, reports, and other pertinent documents, etc. In the case of ATUTMS, a considerable amount of preparatory work was done by ARI and documented by Johnson et al (1982), Hiller (1982), and Ekstrom et al (1982a, b, and c). Whitmarsh (1983) utilized the findings from these previous studies, plus conversations with selected personnel at Fort Ord, to compile a set of forms suitable for automation. Whitmarsh also made preliminary estimates of data base size. Accordingly, the user requirements team has drawn upon the documents cited above, plus Army manuals concerning the management of training within a battalion (e.g., Training Circular TC-21-5-7), manuals dealing with the general roles and responsibilities of battalion staff officers, and conversations with a variety of uniformed personnel knowledgeable about information needs pertinent to unit training and management. In addition, the user requirements team has examined a number of innovative unit level information systems oriented toward particular applications. A considerable amount of time was spent with the personnel of 1/11 FA in identifying particular needs in the areas of unit operations and training, personnel, and logistics.

The resulting set of user requirements inevitably reflects needs which are to some extent unique to the unit chosen for development of a prototype system -- 1/11 FA, 9th Infantry Division. In particular, the personnel of another field artillery battalion may well have opted for a somewhat different set of reports or requested that certain items be added (deleted) from the data base. However, the authors of these requirements attempted to portray the needs of 1/11 FA in rather general terms with the hope that this prototype system could be adopted for use by a variety of units in Forces Command.

## SECTION 4

### STATEMENT OF SYSTEM LEVEL USER REQUIREMENTS

Over a period of several weeks, the information gathered from the sources named in Section 3 was analyzed and condensed into a series of succinct statements about user needs at the system level. Sections 5 through 8 address the data base content, forms and reports required in each functional area. The system level statements have been grouped into the following topics:

1. Characterization of User Groups
2. Reporting and Query Capability
3. Data Base Content
4. General Performance Characteristics
5. Input Devices/Modes/Procedures
6. Output Devices/Modes/Procedures
7. User-Machine Interface
8. Internal System Interfaces
9. External System Interfaces
10. Outputs to External Users
11. Compatibility with Other Systems
12. Security
13. Adaptability to Field Operations
14. Enhancements to Baseline Capability
15. Documentation

Requirements in each topic area have been stated in a fashion that permits verification by: 1) inspection, 2) analysis, or 3) test. Additionally, care has been taken to distinguish mandatory requirements from desirable characteristics and to indicate the degree to which a requirement must be met by the baseline system implemented in Phase I. Each requirement topic is introduced by a brief explanation of the importance of this area and the general intent of the requirements presented. The requirements themselves are stated in all-caps format, followed by any necessary definitions, elaborations, and qualifications. Following the formal statement of systems level requirements is a brief discussion of issues to be addressed during system installation.

#### 4.1 CHARACTERIZATION OF USERS

Specification of user needs begins with a summary statement about scope of applications and elaborates this into an identification of users, noting their roles within the system and summarizing their information needs, system-specific interactions with other users, workload, anticipated skill level, and the physical environment of the system. Each of these topics is addressed separately below. A summary of key points in this topic is presented in Exhibit 4-1.

- 4.1.1 General Scope of Applications: ATUTMS SHALL SERVE THE INFORMATION AND REPORTING NEEDS DIRECTLY RELEVANT TO BATTALION TRAINING IN THE AREAS OF PERSONNEL, OPERATIONS, AND LOGISTICS. ATUTMS SHALL NOT DUPLICATE INFORMATION NOW AVAILABLE OR EXPECTED TO BE AVAILABLE SOON FROM OTHER SOURCES UNLESS IT IS ESSENTIAL FOR TIMELY MANAGEMENT OF INDIVIDUAL OR COLLECTIVE TRAINING, OR IS REQUIRED BY THE UNIQUE CIRCUMSTANCES OF THE BATTALION.

The intent of this requirement is to restrict the scope of applications to those essential to a unit's training management needs. Duplication of information currently available in SIDPERS or DLOGS is expressly prohibited unless these existing systems cannot furnish information that is sufficiently timely or accurate to meet the unit's training management needs or unless the ARI sponsor, in consultation with the host unit, judges that the peculiar needs of the 1/11 FA require some duplication of information available elsewhere. It is incumbent upon ATUTMS designers to take maximum advantage of planned extensions of SIDPERS and DLOGS to the unit level and to avoid duplication of development efforts already begun on other new systems for asset management.

- 4.1.2 Identification of Users: ATUTMS SHALL SERVE THE INFORMATION AND REPORTING NEEDS OF THE FOLLOWING PERSONNEL IN A MANNER CONSISTENT WITH THE STATEMENT OF SCOPE IN REQUIREMENT 4.1.1:

- o THE BATTALION COMMANDER.
- o THE BATTALION EXECUTIVE OFFICER.
- o THE BATTALION STAFF OFFICER FOR PERSONNEL (S1) AND THE BATTALION PERSONNEL OPERATIONS CENTER (BPOC).
- o THE BATTALION STAFF OFFICER FOR SUPPLY AND LOGISTICS (S4) AND HIS ASSISTANTS.
- o THE BATTALION MOTOR POOL OFFICER AND HIS ASSISTANTS.
- o THE BATTALION STAFF OFFICER FOR OPERATIONS AND TRAINING (S3) AND HIS ASSISTANTS.
- o THE COMMANDERS OF THE CONSTITUENT BATTERIES AND OTHER SUB-UNITS; AND THE IMMEDIATE SUBORDINATES OF AND ASSISTANTS TO SUB-UNIT COMMANDERS.

The purpose of this requirement is to identify unit and sub-unit functions that lie within the boundaries of ATUTMS. In particular, the platoon and the brigade each lie outside the community of users whom the system is primarily designed to serve. Needs of external entities to which information is supplied by ATUTMS are explicitly addressed in Section 4.10.

4.1.3. Users' Information and Reporting Needs: THE FULL-UP ATUTMS SYSTEM TO BE DEMONSTRATED BY THE END OF PHASE II SHALL SERVE THE USERS' INFORMATION AND REPORTING NEEDS BRIEFLY IDENTIFIED IN EXHIBIT 4-1. THE BASELINE SYSTEM TO BE DEMONSTRATED IN PHASE I SHALL PRODUCE THE REPORTS AND FORMS IDENTIFIED IN EXHIBIT 4-2, PROVIDE A RAPID QUERY CAPABILITY ABOUT THE STATUS OF ANY ENTITY IN THE ATUTMS DATA BASE, AND SUPPORT ELECTRONIC MAIL TRANSACTIONS AMONG ATUTMS' WORK STATIONS.

Two differences between the capabilities of the baseline (Phase I) and full-up (Phase II) systems are addressed in Section 1, Project Rationale. Broadly speaking, the intent is to provide for rudimentary report generation, electronic communication, and query capability in Phase I. In Phase II, the baseline capabilities would be expanded to include additional change of status transactions, coupled with multi-step paperless processing. A complete definition of the Phase I information and reporting needs required by the personnel, logistics, and operations functions within ATUTMS is presented in Sections 5 through 8.

Multi-step paperless processing will automatically handle all of the forms normally needed in the course of a routine transaction, but do this in a fashion which requires that no hard copy be produced as an intermediate step. A vehicle repair transaction may be used to illustrate the concept. The repair would be initiated by the vehicle operator entering a request for repair on a computer display. After a mechanic had diagnosed the problem, scheduling of the work would occur automatically, subject to the availability of major parts. Parts not on hand would be ordered by the computer and recorded in a suspense file (document register) to facilitate follow-up. Finally, the record of vehicle status would be altered to "down", which is subsequently reflected in the Materiel Condition Status Report. The only paper produced by this sequence of transactions would be documents required by external organizations -- in this case, the parts requisition form (DA 2715) and the Materiel Condition Status Report (DA 2406).

4.1.4 Read Access to the ATUTMS' Data Base: IT IS HIGHLY DESIRABLE THAT ALL USERS HAVE RAPID AND COMPREHENSIVE READ ACCESS TO THE ATUTMS DATA BASE -- SUBJECT TO ESTABLISHED GUIDELINES ON PRIVACY, ACCESS TO CLASSIFIED INFORMATION, AND TRADITIONAL RESTRICTIONS ON ACCESS TO INFORMATION MORE THAN TWO ECHELONS BELOW AN INQUIRER (SEE SECTION 4.12). HOWEVER, IT IS MANDATORY THAT THE BATTALION COMMANDER, EXECUTIVE OFFICER, AND OPERATIONS OFFICER HAVE IMMEDIATE ACCESS TO ALL REPORTS CONCERNED WITH UNIT READINESS, INCLUDING:

- o THE UNIT STATUS REPORT (MONTHLY BRIEFING COVERING TOPICS IN DA 2715).
- o THE DAILY PERSONNEL STATUS REPORT (HFL 904-DG3).
- o TABULATIONS OF ACTUAL AND AUTHORIZED PERSONNEL AND MATERIEL.
- o THE UNIT MANNING REPORT (SIDPERS AAC-C07).
- o MATERIEL READINESS REPORTS FOR VEHICLES (DA 2406) AND SUPPLIES.
- o TRAINING SCHEDULES.

# Exhibit 4-1. Identification of ATUTMS Users, Their Reporting Needs, and Workload

<u>Intensity of Use**</u>		<u>Principal Reporting Requirements</u>		<u>Comments***</u>
<u>Continuous</u>	<u>Intermittent</u>			
Cmndr/Exec	1*	o Personnel roster, unit status summaries, training calendar, queries		Heavy use in early morning and late afternoon
S-1	2*	o Unit manning report/battle roster o Shortages of critical personnel o Daily personnel status report o SIDPERS updates, word processing oriented transactions, queries		Heavy continuous use throughout the day
S-3	1*	o Summaries of training status o Bn roster, queries o Training calendar and schedules o MTOE		Heavy use in morning
S-4	2 1	o Requisitions and suspense file o Status reports and ad hoc queries, Property hook and hand receipts o Ammunition forecasts		Continuous use all day Heavy use in morning
Motor Pool	3 (PLL+2) 1*(TAP/MS) 1*	o Parts requisition, suspense file o Prescribed load list o Maintenance requests and updates o Materiel readiness, vehicle history, Maintenance Suspense File o Dispatch record		Heavy use all day Heavier use in p.m. Heavy use at end of day
Batteries	6* 14 5	o Daily personnel status report o Maintenance and supply requests o Unit status summaries		Heavier use in a.m., but continuous all day

## NOTES:

- \* Work stations marked with an asterisk are slated for implementation in Phase I; applications nominated for implementation in Phase I are listed in Exhibit 4-2.
- \*\* Work station count applies to fully implemented system; however, the design should provide for additional growth at battery and brigade levels, and within battalion staff as well.
- \*\*\* Pattern of use indicates 14 of the 19 terminals are in heavy, continuous use with 5 remaining terminals contributing to morning and late afternoon peaks.

Exhibit 4-2. ATUTMS Applications Identified for Implementation in Phase I

PERSONNEL

- o Maintenance and update of individual soldier records; a summary of change transactions will be part of this application; expansion of the record beyond current SIDPERS will be the responsibility of the battalion.
- o Daily Personnel Status Report (HFL 904-DG3).
- o Unit Manning Report (SIDPERS Report AAC-C07); this report will be expanded to serve as a personnel roster, battle roster, and a linear battalion organization chart.
- o Skill Inventory Report, reflecting shortages of critical military occupational specialties.

OPERATIONS AND TRAINING

- o MTOE/ALO, authorized vs actuals.
- o Unit Status Summary; slides used to brief higher echelons and, subsequently, prepare form DA 2715.
- o Collective, team, and individual training records.
- o Summaries of collective, team, and individual training status.
- o Training schedules.

LOGISTICS

- o Consolidated Property Report.
- o Hand Receipt Report (DA 2062).
- o Document Register Report (DA 2064).
- o Prescribed Load List (DA 2063-R).
- o Materiel Readiness Report (DA 2406).
- o Maintainable Equipment Report (DD 314 and DA 2408-20).

GENERAL

- o Word processing.
- o Electronic mail.
- o Design and implementation of new reports.
- o Queries.

Cursory examination of information flows within a unit reveal that each asset area is quite self-contained. Obvious exceptions are 1) the link between individual soldiers and the equipment which they operate and/or have assumed responsibility by signing hand and sub-hand receipts, and 2) the monitoring and forecasting of materiel resources consumed in training exercises. However, the Commander, his Executive Officer, and the Operations Officer must have summary knowledge of all asset areas, implying a hub-to-spokes pattern of communication, with the Commander, Exec, and S3 at the hub. In short, there is no pressing need to integrate into one global data base the disparate data bases currently used by personnel, supply, and the motor pool if a suitable means can be found for providing the Commander, the Exec, and the S3 with timely summary information on unit status.

4.1.5      Update Access to the ATUTMS Data Base: UPDATE ACCESS TO THE ATUTMS DATA BASE SHALL CONFORM TO PRACTICES OBSERVED IN THE EXISTING MANUAL SYSTEM:

- o      PERSONNEL UPDATES MUST BE DONE BY THE S1 OR HIS DESIGNEES.
- o      SUPPLY UPDATES, BY THE S4 OR HIS DESIGNEES.
- o      VEHICLE AND MAJOR END ITEM UPDATES, BY THE MOTOR POOL OFFICER OR HIS DESIGNEES.
- o      BATTALION LEVEL OPERATIONS AND TRAINING UPDATES, BY THE S3 OR HIS DESIGNEES.
- o      SMALL TASK AND ARTEP BY BATTERY TRAINING NCO (OR CLERK).
- o      OVERALL UNIT STATUS OF MEN AND MATERIEL BY THE UNIT COMMANDER, HIS EXECUTIVE OFFICER, OR THEIR DESIGNEES.
- o      UPDATE ACCESS SHALL BE CONTROLLED BY COMPARING USER IDENTIFICATION WITH THE DATA TYPE TO BE EDITED.

The function of updating the data base is quite sensitive because of the possible harm that could be done either willfully or through negligent operation of the updating routines. Thus, care must be taken to control changes to the data both by denying access to all but authorized people and by recording the identification of the individual performing each update. Passwords should be changed periodically to maintain security.

4.1.6      Identification of Work Stations: THE FULL-UP ATUTMS SYSTEM SHALL PROVIDE WORK STATIONS SUFFICIENT TO SUPPORT THE APPLICATIONS IDENTIFIED IN 4.1.3, SUBJECT TO REQUIREMENTS ON INFORMATION EXCHANGE (4.1.4) AND OVERALL SYSTEM PERFORMANCE (4.4). AN ESTIMATE OF THE NUMBER OF WORK STATIONS REQUIRED BY EACH USER AREA IS PRESENTED IN EXHIBIT 4-1.

The estimate of the number of work stations needed was based on general impressions during visits to several Army installations, together with inputs from individuals at ARI who have spent a great deal of time in Forces Command units.

- 4.1.7 User Workload: THE BASELINE ATUTMS SYSTEM SHALL SUPPORT THE GARRISON WORKLOAD PROFILE DESCRIBED IN EXHIBIT 4-1. WORKLOAD IN THE FIELD WILL BE DETERMINED PRIOR TO THE DESIGN OF THE FULL-UP SYSTEM (PHASE II).

The information on workload in Exhibit 4-1 summarizes analyst impressions of conversations with a variety of individuals, plus observation of a Battalion Personnel Operation Center (BPOC). The pattern which emerged suggested a fairly continuous word processing load in the BPOC, together with a similarly constant transaction load in the motor pool, upon which are

superimposed peaks at the beginning and end of the day as a result of status inquiries by battalion staff officers and unit commanders. Additionally, one expects an above average workload across the board for the few days following a unit's return from a field exercise.

- 4.1.8 Skill Level: ATUTMS SHALL BE DESIGNED TO BE OPERATED AND MAINTAINED BY INDIVIDUALS WHO HAVE HAD NO PRIOR EXPERIENCE USING COMPUTERS. ATUTMS OPERATORS PERFORMING WORD PROCESSING OR SIMILAR DATA ENTRY OPERATIONS MAY BE ASSUMED TO HAVE AN ARMY SKILL LEVEL OF A COMBAT INFANTRYMAN (MOS 11-B) OR ITS ARMOR OR ARTILLERY EQUIVALENT. ATUTMS OPERATORS PERFORMING ANALYSIS MAY BE ASSUMED TO HAVE AN ARMY SKILL LEVEL OF A JUNIOR OFFICER (O-1) OR JUNIOR WARRANT OFFICER (WO-1).

Many of the units which are using microcomputer technology have been fortunate in identifying a few enlisted men who have become quite effective programmers and designers of new applications. In such a case, the unit generally attempts to stabilize these individuals with the hope of retaining their services for as long as possible. However, not all units are so fortunate in finding computer literate personnel. Thus, as a general rule it is prudent to design ATUTMS so that a person of average intelligence with no prior computer experience can effectively operate and maintain the system.

- 4.1.9 Garrison Environment: ATUTMS SHALL BE DESIGNED TO OPERATE IN A GARRISON ENVIRONMENT WHICH IS CRAMPED, DUSTY, AND SUBJECT TO WIDE FLUCTUATIONS IN TEMPERATURE AND HUMIDITY. THE GARRISON ENVIRONMENT MAY BE ASSUMED TO BE LESS DEMANDING THAN THE FIELD ENVIRONMENT (see 4.1.10).

ATUTMS must operate under garrison conditions which are a good deal more demanding than the environment of a typical office automation system. Very often, clerical work stations will share space with other functions as well as military equipment and supplies. Thus, the work station should be compact, no larger than a commercially available word processor, and the

central processing unit (CPU) should occupy a space no longer than one-half the volume of a standard Army desk. The space itself may not be air conditioned and, typically, there is no control over dust, humidity or other environmental factors to which electronic circuits and storage media are sensitive.

4.1.10 Field Environment: IN ORDER TO DEPLOY AND OPERATE SATISFACTORILY IN A FIELD ENVIRONMENT, THE FIELD COMPONENT OF ATUTMS SHALL WITHSTAND:

- o MILITARY STANDARD SHOCK LOADS FOR DROP AND LOW GRADE VIBRATION.
- o TEMPERATURE RANGE OF 20°-130°F.
- o HUMIDITY RANGE OF 0-99%.
- o DUST CONCENTRATIONS FOR A MILSTD HARSH ENVIRONMENT.
- o SURGES IN THE POWER SUPPLIED TO THE HARDWARE.

ADDITIONALLY, THE ATUTMS WORK STATION SHALL COMPLY WITH MILSTD CONSTRAINTS ON R. F. EMISSIONS AND BE RESISTANT TO OCCASIONAL EXPOSURES TO RAIN, SNOW, AND WIND DRIVEN PULSES OF DUST.

The above requirements apply to the Phase II or full-up system. However, it may be necessary to compromise on some of these requirements in order to meet the implementation schedule of the baseline system with off-the-shelf hardware.

4.2 REPORTING AND QUERY CAPABILITY

The ATUTMS system will be designed to have a broad range of reporting capability, including: 1) preparing required Department of the Army (DA) status reports; 2) updating changes in status of individual personnel, equipment, supplies, and units, typically by filling out standard DA forms; 3) defining and using new forms or reports which are dictated by the unique needs of a particular unit; and 4) providing very flexible, ad hoc status reports about groups of entities within the ATUTMS data base. Section 4.2 provides the specification of general reporting capabilities. Section 4.3 addresses the content and general characteristics of the data base.

4.2.1 Content of Status Reports: THE BASELINE ATUTMS SYSTEM SHALL HAVE THE CAPABILITY OF ROUTINELY PRODUCING THE STATUS REPORTS LISTED IN EXHIBIT 4-2.

The status reports required of the full-up (Phase II) system will be defined after more interaction with 1/11 FA and the ARI sponsor. Generally, these efforts will conform to the philosophy of automating the preparation of currently used reports. It is very desirable that status reporting be done on a real time basis. However, it would be acceptable to report status as of the end of the day.

- 4.2.2 Report Format: ADHERENCE TO DA FORMAT OR TO LOCALLY ESTABLISHED FORMATS VARIES WITH THE APPLICATION. DA FORMAT MUST BE OBSERVED IN ALL REPORTS TO EXTERNAL USERS UNLESS THE EXTERNAL USERS ARE WILLING TO ACCEPT REPORTS IN NON-STANDARD FORMAT. IN ANY EVENT, IT IS PERMISSIBLE TO EMPLOY A NON-STANDARD FORMAT FOR REPORTS PRIMARILY USED WITHIN THE BATTALION.

Adherence to DA formats in external reports is one dimension of user-friendliness, in that ATUTMS should not require higher echelons to process the 1/11 FA's reports in a manner different from reports prepared by a non-experimental unit. This stricture applies both to status reports (e.g., the unit status report, DA 2715) and to changes in status (e.g., SIDPERS update form DA 3813) which are furnished to external users. It is reasonable to relax this requirement for users internal to this system so long as there is general agreement on the format. Typically, this would be accomplished by the system designers reviewing a proposed report with the users within the host unit.

- 4.2.3 Capability to Design Custom Forms: IT IS HIGHLY DESIRABLE TO HAVE ATUTMS ALLOW USERS FAMILIAR WITH THE SYSTEM TO DESIGN AND IMPLEMENT A FORM FOR APPLICATIONS BEYOND THOSE IMPLEMENTED WHEN ATUTMS IS TRANSFERRED TO THE 1/11 FA.

Such a capability presumes that the users will discover many new applications for the system as they gain experience with its use. A key consideration is that system documentation and programmed helps make it easy to implement custom forms. It is understood that a naive or novice user will not be expected to design new applications or associated forms.

- 4.2.4 Automatic Form Completion: ALL FORMS DEALING WITH CHANGES IN THE STATUS OF AN ENTITY SHALL BE FILLED IN AUTOMATICALLY INSOFAR AS POSSIBLE, BY COPYING RELEVANT PIECES OF INFORMATION FROM THE RECORD DESCRIBING THIS ENTITY IN THE ATUTMS DATA BASE.

In general, the information on a form may be partitioned into:  
1) data which exists in the required form in the ATUTMS data base or is easily derivable from data base entries via a well specified formula for operation;  
and 2) data which exists in no part of the ATUTMS data base or which requires the user to examine and analyze the ATUTMS record. It is important that all the data falling into the first category be automatically taken from the data base and put into the form as soon as the user identifies which entity (soldier, vehicle, supply type, etc.) is addressed by this form. Because some of the data required by a form may require some manipulation of elemental fields in the ATUTMS record, each form must be analyzed to identify and specify these data transformation operators.

- 4.2.5 Word Processing Capability: ATUTMS SHALL SUPPORT A GENERAL PURPOSE WORD PROCESSING CAPABILITY TO ASSIST IN THE DESIGN OF CUSTOM FORMS AND TO PREPARE LETTERS, MEMOS, DISPOSITION FORMS, AD HOC TABLES AND DATA SUMMARIES, ETC.

The responsibilities of the battalion commander, battalion exec, battalion staff officers, and battery commanders are quite varied. For instance, for the S1 they include maintenance of unit strength; personnel and manpower management; development and maintenance of morale; emergency health treatment; maintenance of discipline; assisting the commander with headquarters management; and miscellaneous responsibilities such as charity drives, savings programs, accident investigation, and radiation dosage records, many of which require the preparation of reports (e.g., unit journal, accident reports, etc.). The other battalion staff officers and the battery commanders also have a breadth of responsibility which requires frequent preparation of reports, memos, letters, etc. A word processing module which converts each work station to a multi-capability typewriter, plus the facility to transfer text between work stations will assist greatly in discharging these time consuming ad hoc responsibilities.

**4.2.6      Query Capability:    THE BASELINE ATUTMS SYSTEM SHALL HAVE THE CAPABILITY TO RESPOND EASILY TO QUERIES ABOUT THE STATUS OF ENTITIES IN THE DATA BASE. THE GENERAL FORMAT OF QUERIES SUPPORTED IS DEFINED IN EXHIBIT 4-3.**

As indicated in Exhibit 4-3, the types of queries supported are formal definitions of the questions typically asked by a manager about the status of a subset of objects for which he is responsible. Often the manager initiating a query will ask someone else (e.g., a clerk in the BPOC) to obtain the answer from ATUTMS. Thus, the commands used to frame a query must be consistent with the user skill level specified in requirement 4.1.8 and the user-machine interface requirements of Section 4.7. Helps and prompts resident on the system will be of considerable assistance in formulating queries.

In addition to the capabilities shown on Exhibit 4-3, it is highly desirable to have a facility to compare selected columns (rows) from tables in the same format, and to portray visually (graphically) precedence relationships inherent in the data base structure (as in a road map for learning MOS or ARTEP tasks).

**4.3              DATA BASE CONTENT**

This section defines in fairly general terms the data base contents in the area of personnel, logistics, and operations/training for the baseline system. In addition to the required information on various entities, this section also addresses general data base features such as a data dictionary, requirements for data integrity, the management of updates, etc.

**4.3.1      Content of Personnel Data Base:    THE PERSONNEL DATA BASE FOR THE BASELINE ATUTMS SYSTEM SHALL BE LIMITED TO INFORMATION CONTAINED IN THE HOST UNIT'S SIDPERS\* DATA FILES, PLUS ANY ADDITIONAL INFORMATION NECESSARY TO SUPPORT THE APPLICATIONS IDENTIFIED IN 4.1.3.**

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\* SIDPERS is the acronym for Standard Installation Division Personnel System.

### Exhibit 4-3: General Form of Queries to be Supported by ATUTMS

#### Definitions:

- E            An entity, such as, a soldier, vehicle or other major end item, consumable item or repair part, organizational unit, etc.
- u,v,w,  
x,y          Attributes which describe an entity, e.g., age, length of service, military occupational specialty, Soldier Qualification Test score, etc.
- z            A new attribute defined on the elemental variables u, v, w, x, and y via arithmetic operations.
- C            A condition which entity E must satisfy in order to belong to a set; for example, E must have the attributes:

$$x = x_1 \text{ and } y_1 \leq y \leq y_2$$

$$\text{or } u_1 \leq u \text{ and } v \leq v_1, \text{ and not } w = w_1, \text{ etc.}$$

Operators used to define a complex condition include equal to ( = ), not equal to ( ≠ ), less than or equal to ( ≤ ), and greater than or equal to ( ≥ ).

#### Query Types:

- o        List all entities E which meet the complex condition C.
- o        Sum the attribute x for all entities E which meet condition C.
- o        Find the average, median, and range of attribute x for all entities E which meet condition C.
- o        List all entities E meeting condition C which are above (below) the nth percentile of attribute x.
- o        Create a temporary file F for all entities E which meet condition C.
- o        For entities E which meet condition C, prepare a cross tabulation of attribute x versus attribute y for specified categories of x and y.
- o        Reformat data in terms of histograms, scattergrams, pie charts and bar charts.

Initially, ATUTMS will use a duplicate of the unit's SIDPERS data files to facilitate the planning and management of training. Additionally, this data base will expedite the response to questions about personnel status asked by the Battalion Commander and his staff in order to satisfy their own needs and the requests made by higher echelons. Because these data will be maintained in two different physical locations, certain problems of data integrity arise which are addressed below in requirement 4.3.6. Although this project is committed to put up only the SIDPERS data base in Phase I, ATUTMS should be structured to permit the host unit to add data easily to the SIDPERS core. A more detailed specification of the personnel data base may be found in Section 5.

4.3.2      Content of the Logistics Data Base: THE LOGISTICS DATA BASE FOR THE BASELINE ATUTMS SYSTEM SHALL BE LIMITED TO INFORMATION BEARING DIRECTLY ON THE READINESS OF MAJOR END ITEMS (e.g., WEAPONS AND VEHICLES) AND SUPPLIES CRUCIAL TO UNIT OPERATIONS (e.g., AMMUNITION AND FUEL).

The intent of this requirement is to put at the disposal of the Battalion commander and his staff, logistics information essential to the planning and execution of collective unit training. Because of the effort involved in assembling the required data for a more comprehensive logistics data base, this effort was consciously circumscribed. It is our expectation that the Phase II system will have much more extensive logistics data, possibly incorporating a developmental system called TACOPS, sponsored by the Army's Logistics Center under Project SMART. A more detailed description of the logistics data base may be found in Section 6.

4.3.3      Content of the Operations/Training Data Base: THE OPERATIONS/TRAINING DATA BASE FOR THE ATUTMS SYSTEM SHALL BE LIMITED TO INFORMATION BEARING DIRECTLY ON UNIT STATUS AND THE COMPLETION OF PLANNED TRAINING. THE BASIC FILES OF THE ATUTMS DATA BASE ARE EACH SOLDIER'S TRAINING RECORD IN TERMS OF SMALL TASKS AND EACH UNIT'S TRAINING RECORD FOR ARTEP MISSION TASKS.

The intent of this requirement is to give the battalion commander and his staff the capability to produce an instantaneous summary of unit status (DA 2715 or its equivalent), together with supporting information available within the baseline ATUTMS data base. In addition to supporting detail available via the ad hoc query capability, it is planned that the baseline ATUTMS will incorporate an MTOE/ALO (actual and authorized), a battle roster, and fairly detailed data on the status of planned collective training. The baseline system will not incorporate TMACS (now fielded by FORSCOM at the brigade level), nor will it provide the operations officer with automated planning tools (e.g., formulation of optimal training schedules via use of mathematical programming). Both of these capabilities are envisioned for the Phase II system. A detailed specification of the training and operations data base may be found in Sections 7 and 8.

4.3.4 Content of the Commander's Personal Data Base: (to be determined)

The intent of this requirement is to reserve for the battalion commander and his executive officer a data base specifically tailored to their needs. Examples of items that might reside in this data base include a calendar, a tickler file of important things to get done by specified dates, files of electronic memos on selected topics, etc. Contents of this data base will be determined via conversations with the commander and executive officer of the 1/11 FA.

4.3.5 Data Dictionary: ALL VARIABLES RESIDENT IN THE DATA BASE OF THE BASELINE ATUTMS SYSTEM SHALL BE DEFINED IN A DATA DICTIONARY WHICH FORMS AN INTEGRAL PART OF THE DATA BASE MANAGEMENT SYSTEM.

Often the system users or maintainers will need to query the system about the meaning of a particular variable. The data dictionary is set up on the system to satisfy this need. (This dictionary will also appear as an appendix in the users guide.) This data dictionary must include both the variables which comprise the data base as defined in 4.3.1 through 4.3.4 and "housekeeping variables" necessary for the smooth functioning of the ATUTMS system (e.g., date of last update, type of last update transaction, identification of major sorting keys, etc.). As a general principle, entries in the data dictionary should exclude abbreviations, acronyms, and terms familiar to a restricted set of people. References to relevant Army Regulations, DA forms, Army manuals, etc are strongly encouraged and should be observed to the extent that project resources permit.

4.3.6 Data Integrity: ATUTMS SHALL INCORPORATE MANDATORY PROCEDURES FOR ASSURING THE ACCURACY OF DUPLICATE DATA WHICH RESIDES PERMANENTLY AT MORE THAN ONE PHYSICAL LOCATION.

Data integrity is broadly concerned with the accuracy of all data resident in the system. However, the principal thrust of this requirement is to provide for periodic checks and reconciliation of any portion of the ATUTMS data base which may be a duplicate of data resident at several different locations. Inasmuch as it is a cardinal rule of data base design to have data reside permanently at one and only one place within the system, this portion of the integrity requirement is meant to address data permanently resident outside the system, which, for one reason or another, ATUTMS duplicates within its system. It is expected that this sort of duplication will occur for the bulk of the personnel data base, which is merely copied from SIDPERS.

4.3.7 Estimated Size of Data Base Contents: THE ATUTMS SYSTEM SHALL HAVE A CENTRALIZED PERMANENT STORAGE MEDIUM LARGE ENOUGH TO ACCOMMODATE THE FOLLOWING VOLUMES OF INFORMATION, WHILE SIMULTANEOUSLY PROVIDING ADDITIONAL CAPACITY FOR ANALYSIS PROGRAMS, UTILITY FUNCTIONS, AND GROWTH:

Personnel	3 Megabytes
Motor Pool	10
Supply	12
Word Processing/DBMS	2
Operations/Training	<u>8</u>
Total	35 Megabytes

Estimates of data base size are based upon previous work by Whitmarsh (1983), information contained in the TACCS\* request for proposal, and conversations with users. Past experience indicates that these estimates may well prove to be low, particularly in view of the enhanced functions contemplated for ATUTMS in Phase II (see Section 4.14). Thus, in sizing the systems, the designer may wish to inflate these estimates by a substantial amount.

#### 4.4 SYSTEM PERFORMANCE

The category of system performance addresses general characteristics of system operation that are of vital interest to the user. As of this writing, three such characteristics have been identified: 1) response time, 2) system availability, and 3) recovery from system failure. A fourth characteristic, data integrity, was covered above in Section 4.3.6.

4.4.1 Response Time: IT IS HIGHLY DESIRABLE THAT THE RESPONSE TIME OF THE ATUTMS SYSTEM NOT EXCEED: 1) 0.2 SECONDS WHEN THE USER IS ENGAGED IN WORD PROCESSING; 2) 30 SECONDS WHEN A TERMINAL DISPLAY HAS BEEN REQUESTED FOR A QUERY, A REPORT, OR THE RESULTS OF AN ANALYSIS; AND 3) 2 MINUTES WHEN A HARD COPY OF A QUERY, REPORT, OR ANALYSIS HAS BEEN REQUESTED.

The system response time in each use condition has been set to conform to user expectations of a real time data base management system. In the experience of the project staff, it is known that a user is willing to wait a few seconds for a report (see Chafin, 1983) but expects a terminal to be indistinguishable from a mechanical typewriter when he is doing word processing.

4.4.2 System Availability: IT IS HIGHLY DESIRABLE THAT UNPLANNED DOWNTIME NOT AVERAGE MORE THAN 2.0 HOURS FOR EVERY 100 HOURS OF OPERATION. PLANNED DOWNTIME FOR BOTH SOFTWARE AND HARDWARE MAINTENANCE SHALL NOT AVERAGE MORE THAN 2.0 HOURS FOR EVERY 100 HOURS OF OPERATION.

System availability targets are based on previous experience with similar office automation systems functioning in an environment comparable to garrison conditions. Availability during field use will no doubt be somewhat lower than in garrison; however, the frequency of field use is low enough to have modest impact on the overall availability targets stated above.

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\* Tactical Army Combat Service Support Computer System.

- 4.4.3 Recovery from System Failure: LENGTH OF A DOWN-TIME FROM A SYSTEM-WIDE SOFTWARE FAILURE SHALL NOT EXCEED 1 HOUR IN GARRISON AND 8 HOURS IN THE FIELD. INFORMATION LOST AS A RESULT OF A SYSTEM MALFUNCTION IN GARRISON SHALL NOT GO BEYOND REQUESTS FOR REPORTS, INQUIRIES, OR FILE UPDATES THAT WERE IN PROCESS AT THE TIME OF THE CRASH.

Targets for recovery from a system crash are based upon previous experience with similar systems, together with the analysts' judgment of what the user will tolerate. Loss of permanent data files, records of previous file updates, or programs used to process the information will not be tolerated, no matter what the operating environment. Moreover, targets for recovery from a crash should be viewed as equally firm.

#### 4.5 INPUT DEVICES/MODES/PROCEDURES

ATUTMS must be capable of handling a variety of input data, including manually keyed data, data which are computer-compatible, and signatures of designated users. In addition, ATUTMS must be designed to minimize the frequency and volume of data base errors resulting from keyed input. The requirements which follow address each of these issues.

- 4.5.1 Keyed Input: EACH ATUTMS WORK-STATION SHALL BE SUPPLIED WITH A KEYBOARD CONTAINING A STANDARD, TELETYPE-LIKE CHARACTER SET. ALL ATUTMS FUNCTIONS MUST BE ACCOMPLISHED WITHIN THIS STANDARD SET OF CHARACTERS.

The bulk of ATUTMS input (both data and requests for reports) will be keyed. Thus, it is essential that this keyboard be highly reliable and easy to use. Considerations of cost and hardware interchangeability rule out the specification of special function keys. However, use of a standard teletype character to execute a special function is permissible. In such a case the surface of the key must be modified to facilitate quick visual recognition of the assigned function. A compressed keyboard is not acceptable.

- 4.5.2 Computer-Compatible Input: ATUTMS SHALL BE CAPABLE OF ACCEPTING COMPUTER COMPATIBLE INPUT FROM MODEM, FLOPPY DISC, MAGNETIC TAPE CASSETTE, AND STANDARD REEL TYPE MAGNETIC TAPE.

ATUTMS must accept a variety of computer compatible input in order to interface effectively with other systems and achieve the kind of intra-system communications flexibility required to operate in garrison and in the field. Periodic reconciliation with the division's SIDPERS file requires input from a reel tape; archiving of data and programs requires cassette tapes; communications in the field as well as garrison interfaces with external systems will be greatly eased by a floppy disc capability.

- 4.5.3 Supplemental Input: THE FULL-UP ATUTMS SYSTEM SHALL HAVE THE CAPABILITY TO CAPTURE SIGNATURES, AND THE CAPABILITY TO EFFECT SELECTED INPUTS BY INTERACTING DIRECTLY WITH THE SYSTEM MONITOR (VIDEO SCREEN) RESIDENT AT A WORK STATION.

In Phase II, it is envisioned that ATUTMS will implement paperless processing of many transactions. Many of these transactions require signature approval or concurrence. Because the capture of signatures is an established technique, it is felt that inclusion of this capability in the system will assist ATUTMS in overcoming a substantial institutional obstacle to paperless processing. An early application of paperless processing would be automation of property records. To conform with the current Army practice of signing hand and subhand receipts for equipment, ATUTMS would have to accept signatures in computer-compatible format. It is our impression that hardware to implement signature capture is commercially available today.

In addition, the availability of a direct screen input device (e.g., via touching the screen or by using a "mouse") provides a very attractive means of simplifying input operations for the computer novice.

4.5.4 Input Verification: ATUTMS SHALL INCORPORATE INPUT PROCEDURES AND AUTOMATIC VERIFICATION FUNCTIONS WHICH BRING RAPIDLY TO THE USER'S ATTENTION ERRORS HE MAY HAVE MADE IN KEYING DATA INTO THE SYSTEM. ATUTMS SHALL ALSO INCORPORATE A TERMINAL CAPABILITY THAT PERMITS A USER TO ASCERTAIN THE CONTENTS OF STORED DATA PRIOR TO INPUT TO THE DATA BASE AND SUBSEQUENTLY, TO VERIFY THAT INPUT HAS BEEN PROCESSED ACCURATELY.

Human error has been a perennial problem in the operation of systems using extensive data bases. In light of the operator skill level for which ATUTMS is planned, it is incumbent on the systems designer to structure terminal operation in a manner which forces the user to verify keyed input. Additionally, the system must perform certain elemental integrity checks which would immediately flag some data as being inappropriate (e.g., wrong number of characters are keyed, data are a mix of alpha and numeric when only numeric is expected, data contain an embedded blank or other extraneous characters, etc.).

As an entirely separate issue, it is most important that a user be able to read portions of data stored on computer-compatible media before the data is read into the permanent system data base. This will permit him to verify his understanding of the label description on the medium, spot instances of mis-labeling, incomplete or garbled data, etc. As a matter of course, every input operation must be followed by a verification that the data were entered into the system data base in the manner intended by the user. All of these verifications must be implemented in a fashion that does not impose a significant burden on the user.

#### 4.6 OUTPUT DEVICES/MODES/PROCEDURES

Like input, system output occurs in a variety of forms, for example: 1) a monitor (cathode ray tube) is needed at each work station; 2) a letter quality printer is required for documents sent to external users; 3) printers of lesser quality are required for hard copy that stays within the unit; 4) devices are required to produce computer-compatible input for other systems. The following paragraphs elaborate each of these requirements.

- 4.6.1 Work Station Monitors: EACH ATUTMS WORK STATION SHALL BE EQUIPPED WITH ONE STANDARD QUALITY VIDEO MONITOR, LARGE ENOUGH SUCH THAT A USER OF AVERAGE EYESIGHT CAN READILY READ TEXT IN BOTH NATURAL AND ARTIFICIAL LIGHT. A SCREEN SIZE WHICH DISPLAYS 2/3 OF AN 8-1/2 x 11 PAGE OF TEXT WITH NO PERIPHERAL DISTORTION IS HIGHLY DESIRABLE; A CAPABILITY TO DISPLAY AT LEAST 1/2 PAGE OF 8-1/2 x 11 TEXT IS MANDATORY.

Because the monitor is one of the two principal human-machine interfaces, it is important that the one selected be pleasant to use. Accordingly, monitors with small character size, limited display space, or illumination that is sensitive to external lighting are to be avoided. As indicated by the requirement, the user must be able to view somewhat more than half a standard size page of text with no distortion at the edges of the screen. Because complex graphics displays are not envisioned even in Phase II, a video quality (high resolution) monitor is not required.

- 4.6.2 Letter-Quality Printer: THE BASELINE ATUTMS SYSTEM SHALL HAVE ONE LETTER-QUALITY PRINTER, LOCATED IN THE BPOC, BUT AVAILABLE TO SERVE ALL WORK STATIONS.

In light of the applications planned for the baseline system, one letter quality printer is deemed sufficient to serve all the external documentation needs of the battalion and its component units. Experience with commercially available hardware indicates that most dot matrix printers do not produce output of sufficient quality. Field use of this printer is not a requirement; thus, it need not be ruggedized or equipped with a shock-resistant carrying case. The analogous requirement for the Phase II system remains to be determined.

- 4.6.3 Non-Letter-Quality Printer: FOR EACH CLUSTER OF WORK STATIONS ATUTMS SHALL HAVE ONE NON-LETTER-QUALITY PRINTER WITH A CAPACITY OF AT LEAST 100 LINES PER MINUTE. HOWEVER, EACH WORK STATION AT BATTALION LEVEL MUST BE ABLE TO USE ANY PRINTER IN THE SYSTEM; A BATTERY LEVEL PRINTER MAY BE SLAVED TO THE TERMINAL AT THE BATTERY WORK STATION. THE NUMBER OF PRINTERS PER CLUSTER SHALL BE CHOSEN SUCH THAT A USER MUST WAIT NO MORE THAN 30 MINUTES FOR HIS OUTPUT UNDER CONDITIONS OF HEAVY SYSTEM USE.

It is anticipated that there will be three prime clusters of users: 1) BPOC/Commander/Exec, 2) Operations Officer/Supply Officer, and 3) the Motor Pool. As of this writing, it appears that work stations in component units must also be equipped with printers. Note that the BPOC will have at least two printers (a high-speed and a letter-quality machine), thus providing this key user cluster with a fair measure of redundancy.

It is presumed that the design conditions for maximum waiting time will be mid-morning (about 1000 hrs) or late afternoon (about 1600 hrs). As of this writing, the volume and time distribution of printed output have not been estimated for the baseline system. In the absence of such estimates, the system designer is advised to observe a rule of thumb of one non-letter-quality printer for no more than four contiguous work stations.

4.6.4 Computer-Compatible Output Devices: THE ATUTMS SYSTEM SHALL HAVE THE CAPABILITY TO WRITE AND READ HARD DISCS AND REELS OF STANDARD MAGNETIC TAPES. IN ADDITION, THE SYSTEM SHALL BE EXPANDABLE TO READ AND WRITE FLOPPY DISCS AND TO SUPPORT DATA COMMUNICATION LINKS WITH EXTERNAL COMPUTER SYSTEMS.

A variety of computer-compatible output modes are desirable to provide back-up files, facilitate internal communication among work stations (which may be operating on physically isolated segments of the data base), and permit ATUTMS to interface smoothly with automated systems at higher echelons. A principal concern of the system design must be the flow of data to and from SIDPERS with minimal disruption to the operation of that system. Initially it appeared that a direct exchange of data would be practicable; however, conversations with the SIDPERS unit at Ft. Lewis revealed that hard copy is the only acceptable input mode at present.

4.7 USER-MACHINE INTERFACE

ATUTMS will serve a broad spectrum of users, engaged in different applications and having different degrees of familiarity with computer systems. In particular, ATUTMS must address the needs of four distinct types of users:

- o Naive users have little or no familiarity with computers and have never used a computer terminal.
- o Novice users understand system capabilities fairly well but require continuing assistance in selecting and executing particular applications.
- o Competent users understand system capabilities so well that they operate the system automatically with little need or desire for helps.
- o Expert users are both interested in and capable of extending system abilities by constructing shortcut procedures to execute existing applications; devising new applications by modifying and extending existing applications; and programming new applications in a high level language.

Serving all of these users well requires a rather careful specification of the user-machine interface.

4.7.1 Data Base Management System: ATUTMS SHALL INCORPORATE AS A KEY SYSTEM BUILDING BLOCK A PROVEN, COMMERCIALY AVAILABLE DATA BASE MANAGEMENT SYSTEM (DBMS). A USER'S GUIDE MUST BE AN INTEGRAL PART OF THE DBMS SELECTED.

A DBMS is of considerable value because it permits reports and input forms to be defined easily, speeds the processing of complex queries, and provides a sound foundation for building a user interface with the system.

Specification of a proven, commercially available DBMS limits the cost of system implementation and assures some minimal level of user-friendliness.

- 4.7.2      Tutorial Capability: THE FULL-UP ATUTMS SYSTEM SHALL HAVE A TUTORIAL MODULE WHICH INTRODUCES THE NAIVE USER TO THE FUNCTIONS AVAILABLE AT HIS WORK STATION AND TO THE BROAD CAPABILITIES OF THE SYSTEM.

The tutorial module must familiarize a new user with keyboard operations as well as with file management, basic input, output, report generation, and query functions. Examples should be given of how to enter data into the daily personnel status report, how to fill out a maintenance history form, or make changes in the unit manning report, with particular examples being dictated by each user's interests. After completing the sequence of responses and practical exercises in the tutorial module, the unfamiliar user should be equipped to begin terminal operations at his work station with only occasional assistance from more experienced users or from the users guide.

It is highly desirable that the baseline system have the sort of tutorial capability described above. However, resource constraints may require that implementation of this feature be deferred to Phase II.

- 4.7.3      Menu-Driven User Interface: ATUTMS SHALL HAVE A MENU-DRIVEN USER INTERFACE, SUPPLEMENTED BY BLOCK DIAGRAMS OF PROCESSING LOGIC AS APPROPRIATE, TO GUIDE THE NOVICE USER.

A menu or list of options, each of which is expandable into sublists, is a very desirable basis for the system of processing commands because it conforms to observed patterns of human information processing. Menu items should be short phrases with the use of abbreviations limited to acronyms very common in Army usage, such as SQT (for Soldier Qualification Test), TO&E (for Table of Organization and Equipment), etc. Moreover, all abbreviations must be defined in a glossary of terms. Supplementing menus with block diagrams is urged because of the aid to comprehension these diagrams offer to the more visually oriented user.

- 4.7.4      Abbreviated Menu Mode: TO SUPPORT COMPETENT AND EXPERT USERS, ATUTMS SHALL BE CAPABLE OF OPERATION IN EITHER "EXTENDED MENU MODE" (see 4.7.3) OR "ABBREVIATED MENU MODE." IN ABBREVIATED MENU MODE, THE USER SHALL BE ABLE TO INITIATE FUNCTIONS BY KEYING A PRE-DETERMINED 3, 4, OR 5 CHARACTER ABBREVIATION OF FREQUENTLY USED COMMANDS.

Competent users rapidly become impatient if forced to implement a familiar processing sequence via a series of menus. The intent of this requirement is to permit such users to operate in a streamlined mode, in which a command sequence is executed using a set of standard menu abbreviations. It is important that all users be constrained to use a common set of abbreviations for menu commands. These abbreviations should appear as an integral part of

the command lists utilized in menu-mode. The characters used in abbreviated commands must be selected in accord with generally accepted human engineering principles, with particular attention to the risk of file loss caused by inadvertent keying errors (see Chafin, 1982).

- 4.7.5 Implementation of User-Designed Applications: ATUTMS SHALL BE DESIGNED TO ASSIST THE EXPERT USER IN THE DESIGN AND IMPLEMENTATION OF CUSTOM APPLICATIONS VIA THE COMMAND LANGUAGE EMBEDDED IN THE DBMS OR HIGHER LEVEL PROGRAMMING LANGUAGES COMPATIBLE WITH THE DBMS.

The intent of this requirement is to give the user considerable latitude in extending the capabilities of ATUTMS by implementing new reports, forms, analysis procedures, etc. That portion of the user interface which addresses this requirement must tell the user how to implement the new applications on the system once it is designed and must, in addition, require enough documentation ("in code," preferably) to permit maintenance and revision by an unfamiliar individual. It must be possible to write new applications in any language supported by the operating system within which ATUTMS is embedded, so long as this language is compatible with the DBMS.

- 4.7.6 Helps: ATUTMS SHALL PROVIDE HELPS WHICH ASSIST THE USER IN UNDERSTANDING THE RESPONSE REQUESTED BY THE SYSTEM AT EACH POINT IN THE PROCESSING SEQUENCE.

The intent of this requirement is to make it easy for the user to orient himself and then to find out very quickly what he needs to know in order to complete the application in process. At a minimum, helps must include a narrative description of each menu item and pointers which will lead the user to a glossary of unfamiliar terms, variable definitions (contained in the data dictionary), recommended procedures for obtaining necessary data or using data to produce estimates, etc. In addition, every standard DA form which is implemented should refer to the Army Regulations which govern its completion, plus any relevant manuals, job aids, etc. Finally, it is not the intent of this requirement to implement the ATUTMS User's Guide on the system; the idea is to give him just enough information to take the next step which can be: 1) completing the application in process or 2) seeking more information.

- 4.7.7 Operating Procedures: THE ATUTMS USER'S GUIDE SHALL DESCRIBE BOTH ROUTINE AND EXCEPTIONAL OPERATING PROCEDURES, INCLUDING COLD START, RECOVERY FROM A SYSTEM CRASH, AND INPUT/OUTPUT OPERATIONS. ADDITIONALLY, IT IS HIGHLY DESIRABLE THAT THE COMPUTERIZED COMPONENT OF ATUTMS PROVIDE HELPS SUITABLE FOR DIAGNOSING AND FIXING SYSTEMS PROBLEMS, GIVEN A POWER-ON CONDITION.

Operating procedures must be described in terms that will permit even a novice user to power up, power down, and recover from a failure of the computer operating system or a loss of data files on the system disc. However, in some instances the user may recognize only that a problem exists but not know what the problem is. To cope with this situation, it is very

desirable that the system provide diagnostic helps for common systems problems. It is preferable that these helps be accessible on a powered-up terminal, in addition to documentation in the users guide.

#### 4.8 INTERNAL SYSTEM INTERFACES

Within the ATUTMS system, the topic of internal system interfaces is primarily concerned with provision for communication among the users. Inter-user communication must consider the need for data exchange, electronic mail, orderly addition of new office automation devices, and finally, the desirability of collecting usage statistics.

##### 4.8.1 Data Exchange and Networking: IN THE GARRISON ENVIRONMENT, ATUTMS SHALL PROVIDE FOR CONTINUOUS DATA EXCHANGE AMONG ALL WORK STATIONS, AND BETWEEN INDIVIDUAL WORK STATIONS AND THE ATUTMS DATA BASE.

Since a DBMS will be the cornerstone of ATUTMS system architecture, each work station must be linked to the data base and to all other work stations. Possible modes of communication include dial-up telephone, cable, and radio (n.b. field communications by packet radio are envisioned for a prototype high technology command and control system). Whatever mode is selected, the system should be designed to incorporate redundant channels in key links. The system architecture must consider the communication needs associated with distributed data base management systems, which are likely to become available commercially within the next 1-2 years.

##### 4.8.2 Electronic Mail: ATUTMS SHALL SUPPORT ELECTRONIC MAIL TO ROUTE MEMOS, MESSAGES, REPORTS, ETC., AMONG ALL WORK STATIONS. IF A STATION IS UNATTENDED OR THE USER IS NOT READY TO REVIEW BACKLOGGED MAIL IT WILL BE STORED UNTIL REVIEWED. ADDITIONALLY, THIS FUNCTION SHALL PROVIDE FOR AN IMMEDIATE ALERT TO RECEIPT OF AN URGENT MESSAGE.

Electronic mail will be one of the capabilities supported by the baseline system. Implementation should be very easy, inasmuch as the necessary software is commercially available, and is commonly a feature of a DBMS. With such a system, queries, reports, and ATUTMS generated tables could be sent from station to station at the touch of a button, thus facilitating the high volume of required communication between the battalion officers and the battery commanders. This feature would speed communications and reduce the possibility of error, while also reducing paper work. It will be possible to send orders relating to personnel status changes from batteries to battalion headquarters by using the electronic mail capability. Moreover, it will be possible to send non-standard reports from battalion staff members to the battalion commander.

Routine messages may be read by examining the contents of one's mailbox at login time (or any other time while the system is in use. Additionally, the system must be structured to give urgent messages special handling, such as placing a brief printed message on the monitor at the work stations addressed, followed by two-way communication in conversational mode

if appropriate. The system must be designed to facilitate distribution of a message to any subset of users. It is anticipated that electronic mail will become a heavily used function once the host unit becomes familiar with it.

- 4.8.3 Standard Communications Bus: TO FACILITATE THE ADDITION OF NEW INPUT/OUTPUT DEVICES, IT IS HIGHLY DESIRABLE THAT THE COMMUNICATIONS SUBSYSTEM UTILIZE THE STANDARD IEEE COMMUNICATIONS BUS.

Most microcomputer vendors offer a networking capability; however, many of these firms use a proprietary bus for communications among work stations. Because it is not possible to predict what new input/output devices will be useful to support future system functions, it is highly desirable that ATUTMS adopt the IEEE communications bus, a scheme which is expected to become an industry standard. Although highly desirable, this requirement is not mandatory because its strict observance may preclude the choice of hardware which has other very attractive features.

- 4.8.4 Internal Communication Within a Field Environment: IN A FIELD ENVIRONMENT IS IS PRESUMED THAT EACH WORK STATION WILL HAVE A STAND ALONE PROCESSOR. IN SUCH A SITUATION, COMMUNICATION AMONG WORK STATIONS SHALL BE ACCOMPLISHED VIA COURIERED STORAGE MEDIA IN THE BASELINE SYSTEM. THESE COMMUNICATIONS FUNCTIONS MAY BE ACCOMPLISHED VIA PACKET RADIO IN THE FULL-UP SYSTEM, BUT TRANSFER OF INFORMATION BY COURIERED STORAGE MEDIA MUST BE RETAINED AS A BACKUP MODE.

Wire communication links are felt to be too troublesome to establish and maintain in a field environment. Communication by field telephone is especially unattractive because of the notoriously low signal-to-noise characteristic and for potential jamming or eavesdropping by hostile powers.

- 4.8.5 Transaction Statistics: IT IS HIGHLY DESIRABLE THAT ATUTMS KEEP HOURLY RECORDS OF TRANSACTIONS PROCESSED BY THE SYSTEM AND INCORPORATE A CAPABILITY TO SUMMARIZE THIS INFORMATION UPON DEMAND.

Many design decisions will be predicated upon judgmental estimates of transaction volumes and profiles of system use over the day. Accordingly, it would be most helpful if the system collected hard data on usage, thus providing an empirical basis for fine-tuning and possible redesign.

#### 4.9 EXTERNAL SYSTEM INTERFACES

Currently the Army has over 50 operational administrative computer systems, many of which directly impact battalion operations. These systems span the areas of personnel, logistics, finance, and operations. External systems of immediate concern to ATUTMS are SIDPERS, DLOGS, TAMMS, TUFMIS, and TMACS. Details of how to handle ATUTMS external interfaces are given later in

Sections 5-8. This section addresses general characteristics which are of common concern to all external interfaces, namely, duplication of function, computer-compatible data exchange, and minimal disruption of external systems.

- 4.9.1 Duplication of Function: AS A GENERAL PRINCIPLE, ATUTMS SHALL NOT DUPLICATE FUNCTIONS PERFORMED FOR THE HOST UNIT BY EXTERNAL SYSTEMS. HOWEVER, LIMITED DUPLICATION OF FUNCTION IS PERMISSIBLE IN THOSE CASES WHERE AN EXTERNAL SYSTEM IS NOT ABLE TO PROVIDE INFORMATION ROUTINELY, AND IN A MANNER THAT SATISFIES THE NEEDS OF TRAINING MANAGEMENT.

As indicated in Section 2, the intent of developing and demonstrating an ATUTMS prototype is to respond to urgent unit needs for more assistance in the management of training. There is no intent to supplant, bypass, or displace functions of existing administrative computer systems. However, it may be necessary in the judgement of the system designers, to include in the ATUTMS data base some of the information contained in external systems in order to more effectively plan, organize, and monitor training exercises.

- 4.9.2 Computer-Compatible Information Exchange: IN THE FULL-UP ATUTMS SYSTEM IT IS HIGHLY DESIRABLE THAT DATA EXCHANGE BETWEEN ATUTMS AND EXTERNAL COMPUTER SYSTEMS OCCUR IN COMPUTER-COMPATIBLE MODE.

It is a general principle of information systems design that data be encoded in computer-compatible format once and only once. Multiple data capture not only duplicates prior effort but also risks the introduction of errors. As indicated above in Sections 4.5 and 4.6, ATUTMS will have a number of mechanisms to provide flexibility in structuring data communications. However, this is not a mandatory requirement because of potentially unacceptable impacts upon external systems.

Implementation of this requirements will be deferred to Phase II.

- 4.9.3 Minimal Disruption of External Systems: COMPUTER-COMPATIBLE INTERCHANGES BETWEEN ATUTMS AND AN EXTERNAL SYSTEM SHALL BE ACCOMPLISHED IN A MANNER THAT MINIMIZES THE IMPACT UPON THE EXTERNAL SYSTEM.

Ideally, the external system should continue to function exactly as it did prior to the implementation of ATUTMS. However, in practice it may be necessary to effect some changes in procedure in handling the data furnished to the external system by ATUTMS. For example, ATUTMS may produce card images on a tape which is subsequently merged with the input tape routinely used in an external system. This requirement insists that such "special handling" of ATUTMS data be kept to an absolute minimum.

#### 4.10      OUTPUTS TO EXTERNAL USERS

This section identifies reports and data which ATUTMS must supply to organizations and/or computer systems which lie outside ATUTMS' boundaries. Four outputs have been identified: 1) the Unit Status Report which is briefed to brigade and subsequently to division (DA 2715 will not be automated); 2) revisions to the Unit Manning Report (SIDPERS No-AAC-CO7) which goes to MILPO; 3) the Materiel Readiness Report (DA 2406); and 4) updates of SIDPERS, DLOGS, and TMACS, systems which run at division or brigade.

##### 4.10.1      Reports Furnished to External Users:    ATUTMS SHALL PREPARE THE FOLLOWING REPORTS FOR EXTERNAL USERS, IN ACCORD WITH THE APPROVED FORMAT AND REPORTING INTERVALS UNLESS EXCEPTIONS HAVE BEEN OBTAINED FROM THE EXTERNAL USERS:

- 1)    UNIT STATUS REPORT (SET OF BRIEFING SLIDES), MONTHLY.
- 2)    MARK-UP OF THE UNIT MANNING REPORT (SIDPERS NO. AAC-CO7), SEMI-MONTHLY.
- 3)    MATERIEL READINESS REPORT (DA 2406), SEMI-MONTHLY.
- 4)    OTHER EXTERNAL REPORTS, TO BE SPECIFIED BY THE BATTALION.

The detailed content and format of each external report is described below in Sections 5 through 8. In particular, the Unit Manning Report and SIDPERS updates are specified in Section 5; the Materiel Readiness Report, in Section 6; and unit status information, in Section 8.

##### 4.10.2      Updates of External Data Bases:    IN PHASE II ATUTMS SHALL PREPARE THE FOLLOWING DATA BASE UPDATES IN A FORMAT AND MODE ACCEPTABLE TO THE EXTERNAL USERS:

- 1)    SIDPERS UPDATES (DA 3813).
- 2)    DLOGS UPDATES.
- 3)    TMACS UPDATES (TO BE SPECIFIED IN PHASE II).
- 4)    OTHER COMPUTER-COMPATIBLE OUTPUT TO BE IDENTIFIED BY THE BATTALION.

The detailed format and mode of transmission of these data will be specified later. As described above in 4.9.3, the mode of data transfer must be accomplished in a manner that has minimal impact on the recipient.

#### 4.11      COMPATIBILITY WITH OTHER SYSTEMS

During the period when ATUTMS will be developed and implemented, several other computer systems with related capabilities will be demonstrated in prototype form. Under the joint sponsorship of the 9th Infantry Division and the Army Development and Employment Agency (formerly the High Technology Testbed), the Soldier Support Center is developing a High Technology Personnel System (HTPS) which will do strength accounting and slot replacements in combat, help a unit prepare to deploy abroad, and perform routine administrative personnel functions in garrison. The garrison component of HTPS is seen

as a prototype for SIDPERS-3. The U. S. Army Logistics Center is developing a computerized system to handle the requisition of supplies and monitor the operational readiness of vehicles and equipment. Called TACOPS, and jointly sponsored by Project SMART and the 24th Infantry Division, this new logistics system is expected to be ready for an extended demonstration in FY 1984. Both of these new systems will tap into the combat services support node of the command and control information utility which underlies the Distributed Command and Control System soon to be demonstrated at the 9th Infantry Division. Because the ultimate unit management information system will inevitably draw upon all three systems, it is important that they be as compatible as possible, consistent with the need to complete each prototype quickly. Accordingly, it is very desirable that ATUTMS be designed to have: 1) minimal functional overlap with HTPS and TACOPS, 2) hardware compatibility with the equipment to be used in the distributed command post demonstration, 3) software portability, and 4) data compatibility.

4.11.1 Functional Overlap with Developmental Systems: ATUTMS SHALL NOT SUPPLANT PERSONNEL, LOGISTICS, OR OTHER ASSET MANAGEMENT FUNCTIONS WHICH HAVE BEEN SPECIFIED FOR COMPUTER SYSTEMS UNDER DEVELOPMENT ELSEWHERE WITHIN THE ARMY.

As indicated above in the requirement dealing with overlap between ATUTMS and fielded systems, the need for timely information on training status may require the ATUTMS data base to contain some personnel and logistics data. However, ATUTMS is not intended to displace, replace, or supersede any of the functions of existing computer systems supporting the management of personnel or logistics.

4.11.2 Hardware Compatibility: IT IS HIGHLY DESIRABLE THAT THE ATUTMS HARDWARE, PARTICULARLY THE DATA COMMUNICATIONS FACILITIES, BE COMPATIBLE WITH THE HARDWARE USED BY HTPS, TACOPS, THE DC<sup>3</sup>I\* DEMONSTRATION AT THE 9th INFANTRY DIVISION, AND WITH OTHER DEVELOPMENTAL SYSTEMS RESPONSIBLE FOR ASSET MANAGEMENT.

This is not a mandatory requirement because hardware compatibility must be weighed against the computational power and ease of use of the software/hardware combination most attractive for ATUTMS applications.

4.11.3 Software Portability: IT IS HIGHLY DESIRABLE THAT ATUTMS USE AN OPERATING SYSTEM, A DATA BASE MANAGEMENT SYSTEM, AND CUSTOM SOFTWARE WHICH ARE READILY ADAPTABLE FOR USE ON THE HARDWARE EMPLOYED TO IMPLEMENT HTPS, TACOPS, AND THE DC<sup>3</sup>I DEMONSTRATION AT THE 9th INFANTRY DIVISION.

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\* Acronym for distributed command, control, communication, and intelligence.

The intent of this requirement is to encourage the system designer to select an operating system, DBMS, and a language for custom programs which are generally accepted within the broad family of hardware on which ATUTMS is implemented. In transferring software from one machine to another, it is expected that some reprogramming of input and output statements may be required, however, the logical structure of the program should remain intact. Programming in assembly language is to be avoided in any case.

4.11.4      Data Compatibility: IN THE CASE OF VARIABLES WHICH OCCUR IN BOTH ATUTMS AND IN EXTERNAL COMPUTER SYSTEMS, ATUTMS SHALL SYSTEMATICALLY EMPLOY THE IDENTICAL DATA FORMAT, CODES, AND MEASUREMENT UNITS USED IN THE EXTERNAL SYSTEM.

Data compatibility problems can arise if the formats, codes, and measurement units used in one system are not identical to the formats, codes, and measurement units used in another system with which data are exchanged. Below are some examples of format, coding, and measurement unit inconsistencies which may lead to errors as a result of processing in system A data which originated in system B (or vice versa):

- o      Format in system A is larger (has more leading or trailing blanks) than format in system B.
- o      Format in system A uses a hyphen to separate subfield data, whereas, format in system B uses a slash, a blank, or some other character.
- o      System A codes the data for education level as 1, 2, 3,... whereas, system B codes the same data as A, B, C, ...
- o      System A measures the distances driven by vehicles in statute miles, whereas, system B measures distances in kilometers.

4.12              SECURITY

A secure computer system is one in which access to both elemental and aggregate data is restricted to authorized individuals. Generally, matters of security are grouped into three categories: 1) TEMPEST security (protection against compromising electromagnetic emanations from hardware); 2) communications security (COMSEC), dealing with access to data and programs resident on the system; and 3) operation security (OPSEC), which addresses physical access to the system as well as procedures for the safe handling of transportable data, reports, and programs. Under the assumption that the prototype version of ATUTMS will be used by only one or two units within Forces Command, the principal security issues of practical concern center on the implementation of COMSEC and OPSEC. However, because of the potential intelligence target presented by such a centralized data base, a fully deployed ATUTMS should observe all of the security precautions required of a system containing Secret data. In sum, the intent of the security requirements, as an ensemble, is to emphasize that the implementation of ATUTMS must not permit a deterioration of the degree of security afforded by current record keeping practices.

4.12.1 Restricted Access to the Prototype System: ACCESS TO THE PROTOTYPE ATUTMS SHALL BE GOVERNED BY A COMBINATION OF PASSWORD AND USER IDENTIFICATION WHICH AUTOMATICALLY DETERMINE:

- o WHETHER A USER CAN SIGN ONTO THE SYSTEM.
- o WHICH APPLICATIONS ARE AVAILABLE TO THE USER.
- o WHAT AGGREGATE SUMMARIES OF THE DATA ARE AVAILABLE TO THE USER.
- o RESTRICTIONS ON PARTICULAR AD HOC QUERIES OF THE DATA BASE.

ACCESS TO REPORTS AND DATA SUMMARIES MUST CONFORM TO THE LIMITATION OF "NO MORE THAN TWO ECHELONS DOWN."

Once it is established that an individual is authorized to use the system, it must be further verified that he is cleared to change the status of specific data base elements, and that he is permitted to request specific reports or queries in accord with the "two echelons down" rule.

4.12.2 Routine Access to Sensitive Data: THE PROTOTYPE ATUTMS SHALL PROTECT SENSITIVE DATA BY: 1) STORING SENSITIVE DATA IN A NON-STANDARD CODE 2) REQUIRING AN ADDITIONAL PASSWORD TO REQUEST SENSITIVE REPORTS, OR AD HOC QUERIES CONTAINING SENSITIVE INFORMATION AND 3) RESTRICTING PHYSICAL ACCESS TO STORAGE MEDIA.

By prior agreement with the sponsor, the prototype ATUTMS will contain no classified information. Nonetheless, it is likely that a limited amount of sensitive data be contained within the ATUTMS system at any given time. A rather common situation is one in which the data elements are unclassified, but their compilation into a report becomes classified (e.g., the unit status report). This implies that access to certain reports and certain classes of ad hoc queries must be carefully controlled. A final measure of protection is provided by restricting access to the physical storage media themselves.

4.12.3 Security Accreditation of a Deployed System: THE FULL-UP, DEPLOYED SYSTEM SHALL COMPLY WITH SECURITY REGULATIONS REGARDING THE ACCREDITATION OF SYSTEMS CONTAINING INFORMATION CLASSIFIED AS SECRET. ARMY REGULATION 380-380 SUMMARIZES THE PHILOSOPHY GOVERNING THE DESIGN OF SECURE COMPUTER SYSTEMS.

With the exception of the Unit Status Report (typically classified as Confidential), a deployed version of ATUTMS would contain no data elements or preformatted reports which would be individually identified as classified information by Army regulations. However, the pulling together into one computerized data base of all significant information bearing on unit combat capability creates an intelligence target of considerable value to a potential aggressor. To place this problem in a more concrete context, consider the case in which a hostile power is able to pinpoint the Army units which will be

tasked to respond to a planned incursion into a neighboring country (a U. S. ally). If the designated U. S. Army units are equipped with ATUTMS, it would be logical for the aggressor to fine tune its planning by trying to obtain from ATUTMS information which could place U. S. forces at a tactical or strategic disadvantage. Accordingly, it is highly recommended that the deployed version of ATUTMS be designed to observe all of the security precautions required of a system containing information classified as Secret. For such a system to be accredited as secure, it must comply with all pertinent regulations about

- o TEMPEST security,
- o Communications security, and
- o Operations security

as defined above in the introduction to Section 4.12.

#### 4.13 ADAPTABILITY TO FIELD OPERATIONS

ATUTMS is intended to support unit management in meeting all of the unit's commitments in peacetime. Because a significant portion of a unit's training effort is spent in the field, at firing ranges or engaged in training exercises, ATUTMS must be prepared to go to the field with the unit. A number of issues must be addressed in supporting a unit in the field, including: 1) scope of functions supported; 2) ability to support the unit when its troops are split between field and garrison; 3) readiness to deploy to the field; and 4) survivability in a field environment. As indicated in Section 1, adaptability to field operations is envisioned for the full-up system (Phase II), not the baseline system (Phase I).

##### 4.13.1 Scope of Field Functions Supported: IN A FIELD ENVIRONMENT, ATUTMS SHALL SUPPORT THE FUNCTIONS REQUIRED TO MAINTAIN THE FIELD FILES CURRENTLY USED BY THE COMMANDER, HIS EXECUTIVE OFFICER, STAFF OFFICERS, AND SUBORDINATE UNIT COMMANDERS.

Currently, the detailed contents of field files are not well specified. Thus, it is not possible to identify what field functions must be performed by the baseline system and what functions may be deferred to Phase II. In any event, ATUTMS must be designed to permit continuous support of administrative actions while a unit is in the field. To compromise this requirement would detract greatly from system usefulness.

##### 4.13.2 Ability to Support Dispersed Operations: ATUTMS SHALL SIMULTANEOUSLY SUPPORT GARRISON ADMINISTRATIVE FUNCTIONS OF THE BATTALION AS A WHOLE AND FIELD ADMINISTRATIVE FUNCTIONS OF ONE OR MORE CONSTITUENT BATTERIES, OPERATING IN PHYSICALLY CONTIGUOUS OR WIDELY SEPARATED LOCATIONS.

- o Incorporation of more information about assets that are crucial to the unit's training missions (possibly a doubling or tripling of permanent storage requirements).
- o Substantial increase in work stations (possibly 50-100%) without significant degradation in terminal response time.

An annex to this document will expand these and other ideas into formal user requirements prior to the commencement of Phase II.

#### 4.15 DOCUMENTATION

Documentation describing the structure and function of ATUTMS must address two groups of people: 1) those engaged in routine use of the system and 2) those who may wish to modify the software or hardware. A user's guide will address the needs of the first group. Typically a user's guide contains an overview of system capabilities, together with detailed explanations of how to execute each of the programmed applications. Additionally, the user's guide will assist an expert user in developing his own specialized applications, including the integration into ATUTMS of programs he may have written himself. Finally, the user's guide will describe how to power up, power down, solve simple systems problems, and prepare the hardware for deployment to the field. It will not be necessary to duplicate material in the user's guide which will be available at the work station screen -- for example, helps in executing menu commands, the data dictionary, and the programmed introduction to terminal operations and basic system functions.

The needs of the second group of users, those who wish to modify the hardware or software, will be served by a system design document which describes software structure and function in sufficient detail to facilitate debugging, modifications and additions to the code, integration of new software packages, etc. In accordance with good software implementation practices, the code itself should be extensively documented. In addition, the design report must contain a description of the hardware components and their interconnections which will permit easy addition of peripheral equipment, addition of telecommunication facilities, field upgrade of the equipment, etc.

4.15.1 User's Guide: AN INTEGRAL PART OF ATUTMS SHALL BE A USER'S GUIDE DESCRIBING HOW TO EXECUTE EACH OF THE PROGRAMMED APPLICATIONS (INCLUDING SAMPLE INPUTS AND OUTPUTS); DESIGN AND IMPLEMENT NEW APPLICATIONS; DIAGNOSE AND FIX SYSTEMS PROBLEMS; AND TRANSFER THE SYSTEM TO A FIELD ENVIRONMENT.

4.15.2 Design Description: AN INTEGRAL PART OF ATUTMS SHALL BE A DESCRIPTION OF ATUTMS HARDWARE AND DATA LINKS, AND A DESCRIPTION OF THE SOFTWARE ARCHITECTURE AND PROCESSING LOGIC SUFFICIENT TO DEBUG, MODIFY, AND EXTEND THE SYSTEM.

Occasionally the entire battalion will go the field as a unit. More frequently, sub-units will spend a few days at a range or will conduct training exercises in the field. The intent of this requirement is to insure that ATUTMS will continue to function when the elements of the battalion are split between garrison and the field, with the field elements being in widely separated locations.

- 4.13.3. Readiness to Deploy to the Field: THE FIELD COMPONENT OF ATUTMS SHALL BE READY TO GO TO THE FIELD BY AIR TRANSPORT ON 24 HOURS NOTICE, AND BY GROUND TRANSPORT ON 8 HOURS NOTICE. ADDITIONALLY, THE FIELD COMPONENT OF ATUTMS MUST BE UP AND READY TO RUN 4 HOURS AFTER ARRIVAL AT THE FIELD LOCATION.

For ATUTMS to have the rapid deployment capability that is planned, procedures for disassembly, packing, reassembly, and testing must be carefully defined, and the personnel involved in these tasks must be thoroughly trained. A flyaway kit containing spare components, together with test and calibration equipment suitable for field use, will also be required.

#### 4.14 ENHANCEMENTS TO BASELINE CAPABILITY

Topics 4.1 through 4.13 specify the required capabilities of the baseline system, and in some instances, indicate the capabilities which are planned for the full-up system. Some experience with the baseline system (Phase I) must be obtained before developing firm requirements for the full-up system (Phase II). Nonetheless, it is possible now to identify several rather general capabilities which deserve serious consideration for implementation in Phase II.

- o Totally paperless processing of multi-step change-in-status transactions, such as a request to requisition ammunition for a live fire exercise, a request to send a soldier off-post for special training, etc.
- o Automated approval/endorsement of an action (really a part of paperless processing) which would involve the capture and inspection of signatures in machine-compatible form.
- o Continuous communication links to both higher (brigade/division) and lower (platoon) echelons.
- o Data interchange with other administrative computer systems (e.g. SIDPERS, DLOGS, TMACS).
- o Full integration of ATUTMS with the prototype DC<sup>3</sup>I demonstration at the 9th Infantry Division.
- o Tools to expedite the formulation of training schedules for the battalion and its components.

In order to assess the capabilities of ATUTMS, it will be necessary to implement the Phase I prototype at a test unit from within the 9th Infantry Division located at Fort Lewis, WA. Specification of the necessary physical facilities (space, furniture, cables, power, etc.) will be the responsibility of JPL; obtaining these facilities prior to scheduled arrival of the hardware will be the responsibility of the Army. Initial system data input will be a collaborative effort involving JPL, the battalion, and the ARI staff: JPL will be responsible for inputting machine-compatible data, and the Army will be responsible for keyed inputs. Once the system has satisfied simulated test conditions, the battalion staff will be trained and given operational control of ATUTMS.

During battalion test operations (expected to run a few weeks), the ATUTMS applications will be exercised in parallel with existing manual systems. In this way it will be a straightforward task for the JPL team to check the new system against the old, and correct any discrepancies. It is planned that groups of applications will be implemented in a serial fashion to reduce the magnitude of shakedown problems (e.g., personnel first, logistics second, and training third). Implementation will also be facilitated by developing and maintaining at JPL a look-alike hardware and software surrogate of the system being installed at Fort Lewis. Finally, during the test period, the study team will review and evaluate the man-machine interfaces, turn-around times, use of ad hoc query capabilities, reductions in paper flow, attitudes towards acceptance, etc., so that refinements can be identified for Phase II implementation.

## SECTION 5

### PERSONNEL DATA BASE, REPORTS AND PROCEDURES

As indicated in Section 4, the detailed specifications presented here concentrate on those applications which will be implemented in Phase I of the ATUTMS Project. The information conveyed in these specifications is detailed and voluminous, often incorporating long lists of items, tables, figures, pro forma report formats, etc. Sections 5 through 8 depart from the style of Section 4, in which the essence of the requirement was succinctly stated in one or two precisely worded sentences. Here, and in subsequent sections, it will suffice to summarize the data base contents, describe the purposes to be served by a report, etc., and then refer to the salient exhibit which contains the detailed specifications.

#### 5.1 DESCRIPTION OF ATUTMS PERSONNEL DATA BASE, REPORTS, AND PROCEDURES

This section provides the user requirements which are necessary to implement the ATUTMS personnel capabilities. Wherever applicable, interfaces with existing manual and automated personnel systems will be discussed. Areas to be addressed by these requirements include security and access to data, suggested report formats, rates and volumes for transactions and report generation, and identification of users and support personnel. Specific on-line capabilities, and procedures/computations necessary to transform inputs into outputs are discussed in the user's guide. As input from cognizant reviewers is received, these requirements will be updated.

In Phase I, baseline, the types of personnel transactions to be addressed include updating and monitoring unit status. In Phase II, paperless processing, multi-echelon status change transactions will be automated as will the electronic transfer and approval of forms. The ATUTMS personnel activities are given in Exhibit 5-1. The relationships of the inputs and outputs to the personnel data base for 1/11 FA are shown in Exhibit 5-2. The applicable DA forms are given for each process and the uses of the ATUTMS output are identified. The numbers within parentheses on Exhibit 5-2 refer to sections of this document which set forth the detailed requirements.

#### Exhibit 5-1. ATUTMS Personnel Capabilities

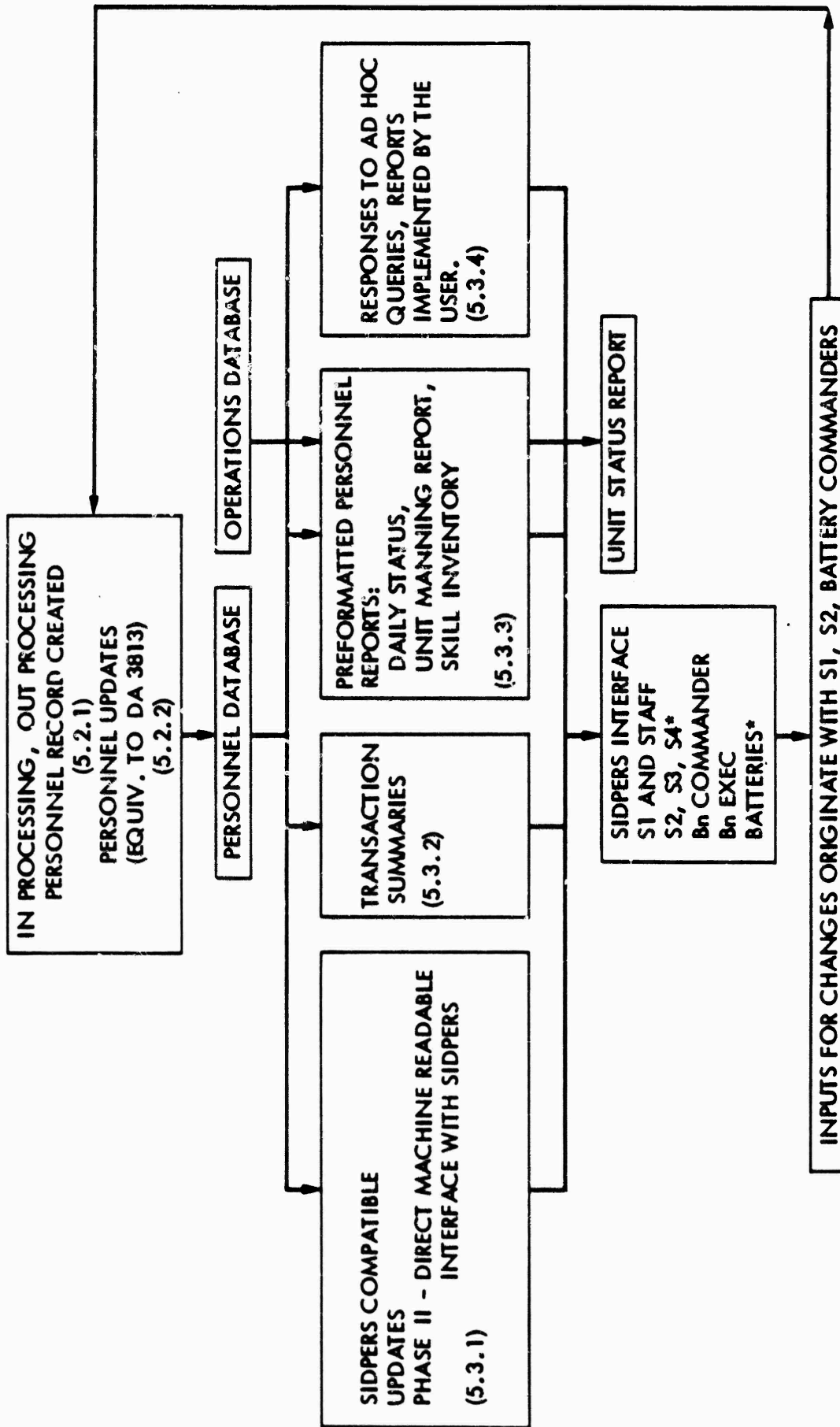
##### INPUT

Data input and update.

##### OUTPUT

Transaction summary.  
Daily personnel status report.  
Unit manning report.  
Skill inventory report (personnel shortages).  
Ad hoc queries.  
Automatic SIDPERS updates (Phase II).

Exhibit 5.2 ATUTMS Personnel Information Flow



NOTE: NUMBERS IN PARENTHESES REFER TO THE SECTIONS OF THIS DOCUMENT WHICH SET FORTH THE DETAILED REQUIREMENTS.

\*S2, S3, S4, AND BATTERY COMMANDERS HAVE LIMITED VIEWING CAPABILITIES (SEE SECTION 5.1.2).

### 5.1.1 ATUTMS Personnel Database Contents and Initialization

Generally speaking, the ATUTMS personnel data base will consist of the battalion-utilized soldier information currently contained within the SIDPERS personnel system, plus additional data on items such as daily duty and deployment status. The individual data elements to be included in ATUTMS for each soldier are outlined in Exhibit 5-4 later. The data base itself will be initialized by obtaining a SIDPERS data tape to which ATUTMS specific data will be added at the battalion. There will be one master record for each soldier, which will contain all data elements and a record of each status change that has affected the soldier. As discussed later in Section 5.3, it will be helpful to check the ATUTMS data base against SIDPERS periodically.

### 5.1.2 Security of ATUTMS Personnel Data

Consistent with the security precautions itemized in Section 4.12, restrictions to certain areas of personnel data will be maintained. Data on unfavorable personnel actions will have restricted access based on the user's need to know. This restriction will be based on the user access code and password. For instance, if the battalion S4 (logistics officer) requests a report that typically includes unfavorable personnel action, this data column will be left blank. Exhibit 5-3 is a table of viewing and update allowances for the battalion officers and battery commanders with respect to the personnel data base. Note that battery updates will be limited to duty status changes within that battery. This will ensure that the integrity of the data base is maintained.

## 5.2 PERSONNEL DATA INPUT

### 5.2.1 Data Entry for New Soldier

Personnel data will be entered initially into ATUTMS for new recruits and transferred soldiers at battalion headquarters. For each addition to the unit, a new individual soldier record will be created. This will be known as the Personnel Data Record. The data will be entered into the system by the battalion S1 or his designee.

Presently, at MILPO, required individual information is processed into SIDPERS for new arrivals by the staff of the Adjutant General. It is anticipated that for new arrivals the individual data required by ATUTMS will be entered at the battalion. For each addition, a new individual soldier record will be created. This record will contain information that is in the military personnel records jacket of the new soldier. This includes Personnel Data, SIDPERS form (DA 2475-2) and the Personnel Qualifications Record (DA2) (see Appendix A). Since the records will arrive at the battalion several weeks after the accession of the soldier, he will be queried for necessary information when he arrives. It is recognized that several data base variables will be left blank until all forms arrive at the battalion. The data entered into the system will be similar to current SIDPERS input data. In addition to SIDPERS data, other information (e.g., meal card number, date

**Exhibit 5-3. Security Restrictions for Personnel Data Base**

<u>Staff Member</u>	<u>View</u>	<u>Update Capability</u>
Battalion Commander	All	No
Executive Officer	All	No
S1	All	Yes
S2	All except unfavorable actions***	Yes*
S3	All except unfavorable actions***	No
S4	All except unfavorable actions***	No
Battery Commanders	Relevant battery only	Duty status changes for relevant battery only**

\* S2 update capabilities will only exist for security clearance and personnel reliability program.

\*\* Personnel update capabilities are itemized in Exhibit 5.8.

\*\*\* Unfavorable actions are itemized in Exhibit 5.8.

on leave, TACFIRE badge number) will also be included in the ATUTMS Personnel Data Record. The complete list of variable specifications for the Personnel Data Record is shown on Exhibit 5-4. The comments column on this exhibit defines the information that is included in the data base within each variable. The first information item is also the definition of each variable. The personnel system will be menu driven and accessed from the main system menu. When "Personnel-New Record" is selected, the user will see a screen of blank data entries for the Exhibit 5-4 variables similar to the one shown in Exhibit 5-5. (Exhibit 5-5 is a partial listing of the entire 62 variable data base which is required for each soldier). Once the Personnel Data Record is entered, processing will immediately take place. If errors are found, the user will be queried for the correct data. It should be noted that one of the personnel data base variables, SCHL, is not related to individual soldier records. SCHL relates to mandatory training. This variable will have to be reviewed and updated periodically by the S1.

#### 5.2.2 Personnel Updates for Existing Records

In the baseline system (Phase I), personnel status changes (education, skill level, etc.) will be input by the S1, S2, battery or battalion into ATUTMS. (Battery updates are limited as defined in Exhibits 5-3 and 5-8.) The personnel update process will operate as described in the users guide.

Currently, SIDPERS Input and Control Data forms DA 3813 (see Appendix A) are filled out for each personnel transaction change. (There are presently 10 to 15 of these updates daily.) A summary of transactions is generated every few days by SIDPERS. A manual record of transactions for each soldier is maintained on his DA 2475-2 in accordance with DA Pam 600-8-1.

Exhibit 5-6 shows a suggested menu for change transaction updates, while Exhibit 5-7 contains the data field specifications for each input on the menu plus data origin and comments. The Exhibit 5-6 menu will appear on the screen by selecting "Personnel-Update" from the main system menu.

The next step is to provide the necessary information for the menu. The variable number will be found by referring to the personnel transaction dictionary which will appear in the user's guide. Exhibit 5-8 has a suggested transaction dictionary which expands on the current SIDPERS system. It is divided into five major categories. Depending on the update transaction selected, the relevant variables from the personnel data base will appear on the screen.\* Then the user will be able to type new data over existing entries (See Exhibit 5.10). Once a successful entry is made, the personnel update will be automatically processed. For all personnel change transactions, errors and inconsistencies will be checked for by the system. A message will appear indicating that the transaction was successfully processed, or if a problem exists, what the nature of the error is. This new update will contain data that is very similar to that currently placed on a soldier's DA2475-2 when a SIDPERS action is processed (see DA Pam 600-8-1). The exception is that in ATUTMS, non-SIDPERS personnel actions (e.g., change in meal card number) will also be included.

---

\* The relationships between the personnel variables in the data base are shown in Exhibit 5-9.

# Exhibit 5-4. ATUTMS Personnel Data Base Content

Variable Number	Mnemonic+	Origin	Comments	Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)
(SIDPERS Variables)				
1	AEA	Availability over- seas assignment	Assignment eligibility availability code, date of AEA termination (YR.MO.DA)**	1A,6N
2	AFRM	DA2	Date eligible for Armed Forces Reserve Medal	6N
3	AFST	DA2	Area of current or last foreign service tour	1A
4	ALCT	DA2, orders	Area of last combat tour, date of completion of last combat tour	1A,6N
5	APRF	DA2635	CONUS preference area, overseas preference area	2N,1N
6	ARR*	Orders, Unit Manning Report	Date assigned to battalion	6N
7	ATCH*	Orders	Reporting Date	6N
8	BSD*	Orders, DD4, DA2	Basic active service date, pay entry basic date	6N,6N
9	COMP	DA2, DD4	Service component, how acquired, expiration of term of service,	1A,1A,6N,1N
10	CVED*	Orders	Civilian education	1A
11	DEPN	DA2, Birth Certi- ficate, Marriage Certificate, Orders, DA647	Number of dependents, # ac- companying command sponsored dependents, # non-command sponsored, authorized dependent arrival date	2N,2N,2N,6N

+ The mnemonics for the SIDPERS variables are from AR680-29.

\* Phase I capability.

\*\* All dates are in the same format: (YR.MO.DA).

**Exhibit 5-4. ATUTMS Personnel Data Base Content  
(Continuation 1)**

Variable Number	Mnemonic	Origin	Comments	Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)
<b>(SIDPERS Variables)</b>				
12	DEPT*	Orders	Departure date (for overseas), movement designator code, number days leave, number of days TDY, # mos served overseas	6N,2A,2N,3N,2N
13	DLCS*	DA2, Orders	Anticipated date of loss other than ETS, assignment classification code, reason, requested new arrival date	6N, 1A, 2A,6N
14	DMOS*	Cmdr, Unit Manning Report	Duty MOS, duty ASI	5A,2N
15	DOB*	Birth Certificate	Date of birth, state or country of birth, country of citizenship	6N,2A,2A
16	DOR*	Orders, DA2	Date of rank	6N
17	DROS	DA2	Date of return from overseas	6N
18	DSEP	Commander	Delay in separation code	1N
19	DSCS	Orders	Dual service component, dual service grade abbreviation	4N,3N
20	DYST*	Cmdr, Letters of Instruction	SIDPERS duty status (old), SIDPERS duty status (new), effective date, strength status**, date**, ATUTMS duty status**, ATUTMS duty status rating**, date**, training status**, date**, training score**	3A,3A,6N, 1A**,6N**,3A**, 2N**,6N**,2A**, 6N**, 3N**
21	ERPT*	Orders, DA2	Date of last efficiency report	6N
22	ETS*	DD4	Discharge date or end of current enlistment, term of service, reason for change, delay in separation	6N,1N,1A,1N
23	FHAI	DD802, DD803	FHA insurance eligibility indicator	1A

\* Phase I capability.

\*\* New field in addition to SIDPERS.

Exhibit 5-4. ATUTMS Personnel Data Base Content  
(Continuation 2)

Variable Number	Mnemonic	Origin	Comments	Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)
(SIDPERS Variables)				
24	GRCH*	Orders	Grade, how acquired	3A,1A
25	GTAS*	Notification, Army Classification, Battery Test	General technical aptitude test score	3N
26	LANG*	DA330	Language identity #1, language identity #2	2N,2N
27	LPCS	DA2	Date of last permanent change of station	6N
28	NAME*	DD4, DD47	Name, 5-letter abbreviation**	27A,5A**
29	NCOG*	Certificate of Completion, DA1059	NCO education	1A
30	PHYS*	SF88, DA3349	Physical category, permanent medical profile, height, weight, date of physical	1A,6A,2N, 3N,6N
31	PMOS*	Orders	Primary military occupational specialty, additional still identifier, PMOS how acquired	5A,2N,1A
32	POSN*	Cmdr, Unit Manning Report, Letters of Instruction	Position number (garrison)	4A
33	PPAY	Orders	Proficiency pay status	1A
34	PRMS	Promotion List, DA Circular	Promotion MOS, promotion indicator, current prom. date current prom. pts, prev. prom- date, prev. prom. pts	4A,1A,6N, 3N,4N,3N
35	RENL	DD4,DD1966, Orders	Reenlistment number, enlistment waiver code, bonus indicator code, reenlistment option code, movement designator code	1A,1A,1A,4A, 2A

\* Phase I capability.

\*\* New field in addition to SIDPERS.

**Exhibit 5-4. ATUTMS Personnel Data Base Content  
(Continuation 3)**

Variable Number	Mnemonic	Origin	Comments	Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)
<b>(SIDPERS Variables)</b>				
36	SECL*	Certificate of Completion, DA2, DA873	Security clearance, investigation status, command investigating, date of investigation	1A,1A,2A,6N
37	SEX	Soldier	Sex	1A
38	SMOS*	Orders	Secondary MOS, secondary addn'l skill identifier	5A,2N
39	SPAY	Orders	Special pay #1 or #2 code, action code for JUMPS	5A,4A
40	SQTT	USAREC 11A, Test Answer Sheets	Skill qualificat'n test written component date, Test Announcement Circular Nos, Test Control Officer No.	6N,4A,3A
41	SSAN*	Social Security Card	Social security number	9N
42	UPC*	Letters of Instruct'n, orders	Unit processing code of battery (UPC), gaining UPC, losing UPC, ultimate gaining UPC, attached UPC, battery**, section**, teams (up to 5)**, date admitted (up to 5)**, team leader (up to 5)**	5A,5A,5A, 5A,5A,1A**, 1N**,2Nx5**, 6Nx5**, 1Nx5**
43	VRBM*	DD4, Orders	MOS reenlistment/enlistment bonus, bonus MOS date	3A,6N
44	YMPS	Military Personnel Officer	Date of photograph	6N
<b>(Non-SIDPERS Variables)</b>				
45	ARTF*	Cmndr	Article 15 (field), date, article 15 (company grade), date (4 of each type)	1A,6N,1A,6N, 1A,6N,1A,6N, 1A,6N,1A,6N, 1A,6N,1A,6N

\* Phase I capability.

\*\* New field in addition to SIDPERS.

**Exhibit 5-4. ATUTMS Personnel Data Base Content  
(Continuation 4)**

Variable Number	Mnemonic	Origin	Comments	Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)
46	COMM*	Cmdr	Comment field	20A
47	CTML*	Cmdr	Pending court martial, date	1A,6N
48	DARB*	Cmdr	Drug & alcohol rehabilitation patient, date	1A,6N
49	DEPL*	Cmdr	Deployable, comment	1A,20A
50	DLIC*+	Unit Records	Driver's license type, license date, vehicle ID, dates of classes (defensive driving, safety, maintenance) date revoked (each of these entries can have 10 lines)	(1A,6N, 1A,6N,6N 6N,6N)x10
51	ELIM*	Cmdr	Pending elimination (chapters), date	1A,6N
52	ERAT*	Cmdr	Efficiency rater identification (3 social security numbers, 3 dates)	9N,6N,9N, 6N,9N,6N
52	MCDN*	Unit Records	Meal card number, date, special rations	8N,6N,1A
54	OWWT*	Cmdr	Overweight program, date	1A,6N
55	PLD*	Cmdr	Projected leave dates (from, to, from, to)	6N,6N,6N, 6N
56	POSN2*	Cmdr	Position number 2 (field)	4A
57	PREG*	Btry Cmdr, Medical Recs, DD399	Pregnant, date	1A,6N

\* Phase I capability.

+ DLIC is explained in detail in Section 7.6.3 (Individual Training).

**Exhibit 5-4. ATUTMS Personnel Data Base Content  
(Continuation 5)**

<b>Variable Number</b>	<b>Mnemonic</b>	<b>Origin</b>	<b>Comments</b>	<b>Data Field Size (N=Numeric Entry) (A=Alphabetic Entry)</b>
58	PRP*+	Cmdr	Personnel reliability program team, DA3130 dates (form prep, AG processing, medical processing, verification of clearance, top secret request, top secret granted), briefing date, training dates and status (initial, intermediate), required reading date, quarterly refresher date, retest date and status	1A,6N,6N, 6N,6N,6N, 6N,6N,6N, 1A,6N,1A, 6N,6N,6N, 1A
59	SCHL*++	CHdr	Required training school, length of course, course number (up to 10 different entries for each variable)	(10A,2N,2N) x10
60	SPNT*	Btry cmdr	Sole parent, date of dependent care plan	1A,6N
61	SSFH*	Individual Soldier	Sole surviving family member	1A
62	TACF*	Unit Records	TACFIRE security badge number	4N

\* Phase I capability.

+ PRP is explained in detail in Section 7.6.3 (Individual Training).

++ SCHL is not related to individual soldier records and must be reviewed and updated periodically by the SI.

**Exhibit 5-5. General Input Format for a New Soldier Arrival  
[Personnel Data Record (Partial Listing)]**

\_\_\_\_\_  
**Name (NAME)**

\_\_\_\_\_  
**Name abbreviation**

\_\_\_\_\_  
**Social Security Number  
(SSAN)**

\_\_\_\_\_  
**Grade (GRCH)**

\_\_\_\_\_  
**How acquired**

\_\_\_\_\_  
**Date of Rank (DOR)**

\_\_\_\_\_  
**Primary MOS (PMOS)**

\_\_\_\_\_  
**ASI**

\_\_\_\_\_  
**How acquired**

\_\_\_\_\_  
**Secondary MOS (SMOS)**

\_\_\_\_\_  
**Secondary ASI**

Exhibit 5-6. Suggested Personnel Update Menu

Transaction Date (YR.MO.DA)      .   .  
Transaction Variable Number      \_\_\_\_\_  
Soldier Name      \_\_\_\_\_  
Social Security Number      -   -  
Originator Name      \_\_\_\_\_

Exhibit 5-7. Personnel Update Menu-Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Transaction Date	User	Date prepared	6N
2	Transaction Variable Number	Stored Transaction Dictionary	See Exhibit 5.8- Variable Number	3A
3	Soldier Name	User	First field of NAME variable	27A
4	Social Security Number	User	First field of SSAN variable	9N
5	Originator Name	User	First field of NAME variable	27A

# Exhibit 5-8. Personnel Change Transaction Dictionary

Variable Number	Action (Action Mnemonic)
<u>PERSONAL DATA</u>	
P1	Number of dependents (DEPN)
P2	Date of birth (DOB)
P3	Name (NAME)
P4	Overweight (OWWT)*+
P5	Pregnancy Status (PREG)*
P6	Sex (SEX)
P7	Sole parent (SPNT)*
P8	Social security number (SSAN)
P9	Sole surviving family member (SSFM)
<u>QUALIFICATION DATA</u>	
Q1	Service component (COMP)
Q2	Civilian education (CVED)*
Q3	Duty MOS (DMOS)*
Q4	Date of rank (DOR)
Q5	Dual service component (DSCS)
Q6	Grade (GRCH)
Q7	General Technical aptitude test score (GTAS)
Q8	Language identity (LANG)
Q9	NCO education (NCOG)
Q10	Physical category (PHYS)*
Q11	Primary MOS (PMOS)
Q12	Proficiency pay status (PPAY)
Q13	Promotion MOS (PRMS)
Q14	Personnel reliability program (PRP)
Q15	Re-enlistment (RENL)
Q16	Security clearance (SECL)

\* Batteries can update only these variables.

+ Unfavorable personnel action.

**Exhibit 5-8. Personnel Change Transaction Dictionary**  
(Continuation 1)

<b>Variable Number</b>	<b>Action (Action Mnemonic)</b>
Q17	Secondary MOS (SMOS)
Q18	Special pay code (SPAY)
Q19	Skill qualification test (SQTT)
Q20	MOS bonus recipient (VRBM)

**UNIT DATA**

U1	Arrival (ARR)
U2	Reporting date (ATCH)
U3	Departure (DEPT)
U4	Unit processing code (UPC)*

**SERVICE DATA**

S1	Assignment eligibility availability code (AEA)
S2	Date eligible for Armed Forces Reserve Medal (AFRM)
S3	Area of last foreign service tour (AFST)
S4	Area of last combat tour (ALCT)
S5	CONUS preference area (APRF)
S6	Article 15 (ARTF)*+
S7	Basic active service date (BSD)
S8	Court martial (CTML)*+
S9	Drug and alcohol rehabilitation (DARB)*+
S10	Deployment status (DEPL)*
S11	Driver's license status (DLIC)*
S12	Date of loss other than date of separation (DLDS)

\* Batteries can update only these variables.

+ Unfavorable personnel action.

**Exhibit 5-8. Automated Personnel Change Transaction Dictionary  
(Continuation 2)**

<b>Variable Number</b>	<b>Action (Action Mnemonic)</b>
S13	Date of return from overseas (DROS)
S14	Delay in separation (DSEP)
S15	Duty status (DYST)
S16	Pending elimination (ELIM)*+
S17	Efficiency raters (ERAT)*
S18	Efficiency report date (ERPT)
S19	Date of separation (ETS)
S20	FHA insurance eligibility (FHA1)
S21	Last permanent change of station (LPCS)
S22	Meal card number (MCDN)
S23	Projected leave dates (PLD)*
S24	TACFIRE security badge number (TACF)
S25	Photograph date (YMPS)

**POSITION DATA**

PN1	Position number (POSN)*
PN2	Secondary position number (POSN2)*

**MISCELLANEOUS**

M1	Comments (COMM)*
M2	Schooling (SCHL)

\* Batteries can update only these variables.  
+ Unfavorable personnel action.

# Exhibit 5-9. Table of Personnel Variable Dependencies

(When an action from the left column is made, the mnemonics shown on the right may be impacted. The data fields of these impacted mnemonics will appear on the screen when a left side change is made. Additionally, for all transactions, NAME, SSAN, GRCH, COMM will always be given on the screen.)

Action Mnemonic	Potentially Impacted Mnemonics					
(SIDPERS Variables)						
AEA	RENL	VRBM	ETS	DEPL		
AFRM						
AFST	DROS					
ALCT						
APRF						
ARR	UPC	PMOS	SEX	POSN		
ATCH	UPC					
BSD						
COMP						
CVED						
DEPN						
DEPT	UPC	DYST	DEPL	ETS	DLOS	
DLOS	ETS	DEPT				
DOR						
DMOS	UPC	POSN	PMOS			
DOB						
DROS	AFST					
DSCS						
DSEP						
DYST	UPC	DEPL	SCHL			
ERPT	ERAT					
ETS	DEPL	RENL	VRBM	AEA	DEPT	DLOS
FHAI						
GRCH						

**Exhibit 5-9. Table of Personnel Variable Dependencies  
(Continuation 1)**

<u>Action Mnemonic</u>	<u>Potentially Impacted Mnemonics</u>					
(SIDPERS Variables)						
GTAS						
LANG						
LPCS						
NAME	DOB					
NCOG						
PHYS	DEPL					
PMOS	PPAY	SQTT	UPC	POSN	DMOS	
POSN	UPC	DMOS	PMOS			
PPAY	PMOS	SQTT				
PRMS						
RENL	VRBM	ETS	AEA	DEPL		
SECL						
SEX						
SMOS						
SPAY						
SQTT	PMOS	PPAY	UPC			
SSAN	DOB					
UPC	POSN	DMOS	PMOS	SQTT	PPAY	POSN2
VRBM	RENL	ETS	AEA	DEPL		
YMPS						

**Exhibit 5-9. Table of Personnel Variable Dependencies**  
**(Continuation 2)**

<b>Action</b>	
<b><u>Mnemonic</u></b>	<b><u>Potentially Impacted Mnemonics</u></b>

(Non-SIDPERS Variables)

ARTF	ELIM	
COMM		
CTML	DEPL	
DARB		
DEPL		
DLAC		
ELIM	DEPL	
ERAT	ERPT	
OVWT	ELIM	
PLD		
POSN2	UPC	DMOS
PREG	DEPL	ELIM
PRP		
MCDN		
SCHL		
SPNT	DEPL	ELIM
SSFM	DEPL	
TACF		

**Exhibit 5-10. Examples of Suggested ATUTMS Screens  
for Personnel Update Data Elements\***

If the personnel update is P3 (name), information similar to that shown below will appear on screen. The user can then make any necessary changes:

<u>JONES, BIFF R.</u>	<u>JONEB</u>	
Name (NAME)	Name Abbreviation	
<u>123-45-6739</u>		
Social Security Number (SSAN)		
<u>22.06.03</u>	<u>CA</u>	<u>US</u>
Date of Birth (DOB)	State of Birth	Country of Citizenship
<u>CPL</u>	<u>E</u>	
Grade (GRCH)	How acquired	
<u>Oversleeps a lot</u>		
Comments (COMM)		

If the personnel update transaction is P2 (date of birth), the following information will appear:

<u>22.06.03</u>	<u>CA</u>	<u>US</u>
Date of Birth (DOB)	State of Birth	Country of Citizenship
<u>JONES, BIFF R.</u>	<u>JONEB</u>	
Name (NAME)	Name Abbreviation	
<u>123-45-6789</u>		
Social Security Number (SSAN)		
<u>CPL</u>	<u>E</u>	
Grade (GRCH)	How acquired	
<u>Oversleeps alot</u>		
Comments (COMM)		

\*Abbreviations and codes not explained in this report are defined in AR680-29.

Exhibit 5-10. Examples of Suggested ATUTMS Screens for  
Personnel Update Data Elements\*  
(Continuation 1)

If transaction mnemonic is S7 (basic active service date), the following will appear:

84.07.04

Basic Active Service Date  
(BSD)

JONES, BIFF R.

Name (NAME)

JONEB

Name Abbreviation

123-45-6789

Social Security Number  
(SSAN)

CPL

Grade (GRCH)

E

How acquired

Oversleeps alot

Comments (COMM)

\*Abbreviations and codes not explained in this report are defined in AR680-29.

### 5.3 AIUTMS PERSONNEL OUTPUTS

The capabilities of ATUTMS-Personnel include output standard reports such as, personnel status reports, unit manning reports, and skill inventory reports. The user's guide will contain instructions for entering the desired output mode from the main system. A suggested ATUTMS output menu is shown in Exhibit 5-11. When the user decides on his report, he will be prompted by the system for the appropriate information. This section defines the requirements for each output item, presents sample reports, and provides computer output specifications.

#### 5.3.1 SIDPERS Compatible Updates

In Phase I, the battalion S1 will be responsible for obtaining daily output from ATUTMS which will aid in the generation of SIDPERS updates. In later stages of ATUTMS, it is planned that SIDPERS update forms will be generated when a command is entered daily by the S1 or the battalion clerk into the ATUTMS system.

Currently, the battalion S1 and staff are responsible daily for the personnel change transaction forms (DA3813--see Appendix A), which are submitted to the SIDPERS Interface Branch (SIB). At SIB, clerks key the input data onto computer tape which is then used as input by the SIDPERS computer. The SIDPERS system will not be impacted by Phase I of ATUTMS, although ATUTMS-generated data will aid in meeting SIDPERS requirements. This will be discussed in Section 5.3.2. In Phase II, it is planned that the necessary DA3813 forms for updating SIDPERS will be generated automatically by ATUTMS.

#### 5.3.2 Transaction Summaries

The S1, exec, or battalion commander will have the capability to get a Transaction Log of ATUTMS personnel updates made since the last requested log. The battalion S1 will verify these daily against the actual change requests. He can also check the Transaction Log against the output SIDPERS transaction register during Phase I (in Phase II this should not be necessary).

SIDPERS currently generates (usually every second duty day) a personnel transaction register (AAC-P11; see Appendix A). The ATUTMS Transaction Log will be very similar. It will be available to the user on demand and will eliminate current delays. Therefore, the Transaction Log will be useful in generating SIDPERS-required inputs. Each action, since the last request of this report, will be printed on the screen and the number of personnel updates processed since the last request will be indicated. The log also contains data that is contained on the current SIDPERS Personnel Transaction Summary by Originator (see Appendix A). This relates to summaries by transaction variable number. If a processed personnel update contains an inconsistency, it will be the responsibility of the battalion to resolve it and to forward a corrected transaction through the battalion S1. Directions for obtaining printed copies of ATUTMS outputs will be given in the user's guide. Exhibit 5-12 is an example of a suggested Transaction Log. Exhibit 5-13 provides the specifications for the log.

**Exhibit 5-11. Suggested ATUTMS Personnel Output Menu**

Transaction Log	_____
Daily Personnel Status Report	_____
Unit Manning Report - conventional format	_____
- linear organization chart	_____
Skill Inventory Report (personnel shortages)	_____

# Exhibit 5-12. Suggested Transaction Log

Date XX.XX.XX

Originator Name XXXX

## Transactions Processed

Transaction Number	Transaction Variable Number	Mnemonic	Affected Soldier	SIDPERS	Transaction Originator Name
X	XX	XXXXX	XXXXX	X	XXXXX
X	XX	XXXXX	XXXXX	X	XXXXX
X	XX	XXXXX	XXXXX	X	XXXXX
Total Transactions Processed					XXX
Total SIDPERS Transactions Processed					XXX

## Total Transactions Processed by Code Numbers

Code Number	Mnemonic	Transactions Processed	SIDPERS
XX	XXXXX	XX	X
XX	XXXXX	XX	X
XX	XXXXX	XX	X
XX	XXXXX	XX	X

Exhibit 5-13. Suggested Transaction Log-Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Originator Name	Personnel Update (PU)	Second field of NAME mnemonic (first 4 letters of last name and first letter of first name)	5A
2	Transaction Variable Number	PU	Numerical order by which transactions were entered	2N
3	Transaction Code Number	PU	From Change Transaction Dictionary	2N
4	Mnemonic	PU	From Change Transaction Dictionary	5A
5	Affected Soldier	PU	Second field of NAME mnemonic	5A
6	SIDPERS	PU	Tells if transaction is covered by SIDPERS (Y,N)	1A
7	Transaction Originator Name	PU	Second field of NAME mnemonic	5A
8	Total Transactions Processed	Total of all Variable 2 Entries	Separate totals are also given for SIDPERS transactions	3N,3N,3N
9	Code Number	Summary of PU	From Change Transaction Dictionary	4N
10	Mnemonic	Summary of PU	From Change Transaction Dictionary	5A
11	Transactions Processed	Variable 2 Summary	- - - -	4N
12	SIDPERS	PU	Tells if transactions are covered by SIDPERS (Y, N)	1A

The Transaction Log can be compared to the SIDPERS generated Personnel Transaction Register and Personnel Transaction Summary. Since the SIDPERS reports will include updates made by MILPO, only those transactions over which the battalion has total control can be verified. However, when unresolvable inconsistencies are found with respect to the pertinent transactions, SIB and MILPO should be notified and corrective action can be taken as a result of discussions held between SIB, MILPO, and the battalion (exec and S1).

### 5.3.3 ATUTMS Standard Reporting

In addition to the ATUTMS transaction log, three output personnel status reports will be completely automated in that the menu can be retrieved on demand from the ATUTMS output menu. (User-generated, ad hoc reports will be discussed later.) These are the Daily Personnel Status Report, Unit Manning Report, and Skill Inventory Report. The Daily Personnel Status Report provides information not currently available from SIDPERS such as the reason for absence from duty or training. The Unit Manning Report provides data basic individual soldier information and data on critical skill strength which can be used for preparing unit readiness reports. The Skill Inventory Report provides a summary MOS breakdown by battery. The specific user requirements are described below. It will be possible for the user to obtain hard copy outputs of all reports in varying format options. These are:

- 1) Normal or reduced print
- 2) Single or double spaced format (the latter to facilitate corrections and comments).

Instructions for implementing these options will be given in the user's guide.

**5.3.3.1 Daily Personnel Status Report.** This report can be requested by battalion or battery clerk any time (mandatory on a daily basis). It will reflect the current state of the data base. All updates since the last request will be included.

The data on individual personnel status is entered into the system by the battery or battalion clerks in accordance with the requirement specified in Section 5.2.2. In addition to battalion or battery clerks, this report can also be accessed by the battalion commander, battalion exec, S1, S3, or battery commanders. The Personnel Status Report requested at the battery level will only include data for that battery. This report will be similar to current form HFL 904-DG3 (see Appendix A). A sample report is given in Exhibit 5-14. This form will be generated automatically from the ATUTMS output menu. The specifications appear on Exhibit 5-15. Detailed information for items B and D (Absent From Duty and Absent From Training), and for mandatory training will be printed at the end of the output. The detailed information will include date of last change and previous duty status for affected soldiers as well as listings of individual school attendees.

**5.3.3.2 Unit Manning Report.** This report can be requested by the S1 or a battery commander at any time. As is the case with the Personnel Status Report, this report will reflect the current state of the data base. In addition, it will contain some information that is in the ATUTMS operations data base.

SIDPERS currently generates a Unit Manning Report on a semi-monthly basis (AAC-CO7; see Appendix A). The ATUTMS Unit Manning Report is similar to the SIDPERS report but eliminates irrelevant information for the battalion such as language identity and contains additional information such as training status, deployability, and section and team membership. It allows a requester to determine basic individual information and whether enlisted personnel are properly utilized either in garrison or in the field. It also assists in the preparation of reports on unit readiness. The ATUTMS Unit Manning Report can be used as a linear organization chart or as a personnel roster. In order to address the varying requirements fulfilled by the ATUTMS Unit Manning Report, it will be possible to obtain it either in conventional format (as now provided by SIDPERS) which groups the personnel by MTOE line and paragraph number, (e.g., all section leaders in a firing battery occupy one line) or, which slots every soldier in the battalion in linear organization chart format.

This second option will be utilized by batteries, sections, and teams. This report will be generated from the ATUTMS output menu by a battalion clerk or the S1 at the same frequency as the SIDPERS-generated report or more often if desired. The clerk will be responsible for forwarding the Unit Manning Report to the battalion personnel operations center which is under the direction of the S3. The differing commanders,\* exec, or S1 will also be able to generate the Unit Manning Reports. A sample Unit Manning Report in conventional format is given in Exhibit 5-16. A sample linear organization format is given in Exhibit 5-17. The specifications appear in Exhibit 5-18.

**5.3.3.3 Automated Unit Skill Inventory Report.** This report can be requested by the S1 or a battery commander at any time. It lists required, authorized, and assigned skill levels for the battalion by grade. From this data specific shortage areas can be identified. At the 1/11 FA it is currently maintained by the S1 on the existing word processing machine (see Appendix A). The report will address the entire battalion or any battery. However, when requested at the battery level the report will be restricted to that battery only. A sample report is given in Exhibit 5-19, while the specifications appear in Exhibit 5-20.

#### **5.3.4 Word Processing, Electronic Mail, Ad Hoc Queries**

These features are generic to ATUTMS as a whole and can apply to operations or logistics as well as to personnel. Therefore, the implementation of these features was discussed in Sections 4.2 and 4.8 of the General Systems Requirements. The discussion here provides a small overview of how the ad hoc query capabilities could be used in maintaining efficient communications and accurate records with respect to the personnel system.

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\* The battery commanders will only be able to view the Unit Manning Report for their own battery.

The ad hoc query capability is quite important to the efficient functioning of the battalion. Presently, the S1 at the host unit creates his own specialized lists which are stored on the existing word processor. These reports contain data that is either not available from existing outputs or, if available, is not timely. These specialized reports include summaries of soldier grade and MOS vs availability and MOS vs grade. The ad hoc query capability will aid in creating these specialized summaries and in answering soldier specific questions.

#### 5.4 ATUTMS PERSONNEL SUMMARY

Section 5 has presented the structure and use of the ATUTMS Personnel System. Suggestions for the initialization and maintenance of individual soldier records were given. Various types of output reports were also discussed. While the actual system may differ somewhat from the formats and specifications given here, the reader should now have a good foundation for understanding the Personnel System within ATUTMS. More exacting detail will be provided in the user's guide.

Exhibit 5-14. Suggested Battalion Personnel Roster

Date of Roster (YR.MO.DA) \_\_\_\_\_.\_\_\_\_.\_\_\_\_ (user input)

Name	SSN	Grade	PMOS	Battery	Date Assigned	DOR	Driver's License	Duty Status	Meal Card No.
XXXX	XX-XX-XXXX	XX	XXXX	XXXX	XX-XX-XX	XX-XX-XX	X XX-XX-XX	X	XXXXXXXX
							X XX-XX-XX		
							X XX-XX-XX		
							X XX-XX-XX		
							X XX-XX-XX		
							X XX-XX-XX		
XXXX	XX-XX-XXXX	XX	XXXX	XXXX	XX-XX-XX	XX-XX-XX	X XX-XX-XX	X	XXXXXXXX
							X XX-XX-XX		
							X XX-XX-XX		

**Exhibit 5-15. Daily Personnel Status Report-Part I  
- Specifications**

Variable Number	Variable	Origin	Comments	Data Field Size
1	Assigned	Personnel Data Record (PDR)	These variables are based on the sixth field of the DYST mnemonic (ATUTMS duty status). The duty status codes are based on Exhibit 5.14 (e.g., absent from duty-leave=B1, present for duty-guard=D4). The variable definitions of this exhibit are generally self-explanatory except as noted below.	3N,3N,3N
2	Attached	PDR		3N,3N,3N
3	Detached	PDR		3N,3N,3N
4	Total	variable(v)1+v2+v3		3N,3N,3N
5	Leave	PDR		3N,3N,3N
6	TDY	PDR		3N,3N,3N
7	AWOL	PDR		3N,3N,3N
8	Confinement	PDR		3N,3N,3N
9	Hospital	PDR		3N,3N,3N
10	Mil Schools	PDR		3N,3N,3N
11	Quarters	PDR		3N,3N,3N
12	SD External	PDR	Special Duty Outside Battalion	3N,3N,3N
13	Pass	PDR		3N,3N,3N
14	Total	v5+v6+v7+v8+v9+v10+v11+v12+v13		3N,3N,3N
15	Present for Duty	v4-v14		3N,3N,3N
16	Unit Duty	PDR		3N,3N,3N
17	In/Out Proc	PDR		3N,3N,3N
18	Detail	PDR		3N,3N,3N
19	Guard	PDR		3N,3N,3N
20	CQ	PDR	Orderly Room	3N,3N,3N
21	Appointment	PDR		3N,3N,3N
22	Sick Call	PDR		3N,3N,3N
23	ORU	PDR	Non-Military Schools	3N,3N,3N
24	SD Internal	PDR	Special Duty Within Battalion	3N,3N,3N
25	Total	v16+v17+v18+v19+v20+v21+v22+v23+v24		3N,3N,3N
26	Organic	v15-v25		3N,3N,3N
27	SD Gains Non-Organic	PDR		3N,3N,3N
28	Total	v26+v27		3N,3N,3N

**Exhibit 5-15. Daily Personnel Status Report-Part II  
Specifications (Continuation 1)**

<b>Variable Number</b>	<b>Variable</b>	<b>Origin</b>	<b>Comments</b>	<b>Data Field Size</b>
1	Grade	PDR	First field of GRCH mnemonic	3A
2	Name	PDR	Second field of NAME mnemonic (name abbrevia- tion)	5A
3	SSN	PDR	First field of SSAN mnemonic (social security number)	9N
4	Battery	PDR	Sixth field of UPC mnemonic (A,B,C,S, or H)	1A
5	Applicable dates, Date, Expected Completion Date	PDR	Dates come from DYST mnemonic	6N,6N
6	School	PDR	First field of SCHL mnemonic (school)	10A
7	Required Time	PDR	Second field of SCHL mnemonic (length of course (months))	2N
8	Score	PDR	Eleventh field of DYST mnemonic (training score 0-100)	3N





# Exhibit 5-18. Unit Manning Report-Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Position No.	Personal Data Record (PDR)	First field of POSN mnemonic (garrison position number)	4A
2	Name	PDR	Second field of NAME mnemonic (abbreviated name)	5A
3	Duty Title	ATUTMS-Oper.	Job Title from TOE/TDA	20A
4	SSN	PDR	First field of SSAN mnemonic (Social Security number)	9N
5	Auth. Grade	PDR	Authorized grade (actual grade) associated with DMOS	3A
6	Actual Grade	PDR	First field of GRCH mnemonic	3A
7	DMOS	PDR	First field of DMOS mnemonic	5A
8	PMOS	PDR	First field of PMOS mnemonic	5A
9	ASI	PDR	Second field of PMOS mnemonic	2N
10	Security Clearance	PDR	First field of SECL mnemonic	1A
11	SMOS	PDR	First field of SMOS mnemonic	5A
12	Bonus	PDR	First field of VRBM mnemonic	3A
13	Date Assigned	PDR	First field of AAR mnemonic	6N
14	Loss Date	PDR	First field of DLOS mnemonic	6N
15	Reporting Date	PDR	First field of ATCH mnemonic	6N
16	ETS	PDR	First field of ETS mnemonic	6N
17	DOR	PDR	First field of DOR mnemonic	6N

Exhibit 5-18. Unit Manning Report-Specifications  
(Continuation 1)

Variable Number	Variable	Origin	Comments	Data Field Size
18	Drivers License	PDR	Number of times first 2 DLIC variables appear, or if detail is desired, the contents of these 2 variables will be given (an integer from 1 to 9, date)	1N or (1A,6N) x number of teams
19	Duty Status	PDR	Sixth field of DYST mnemonic (ATUTMS duty status)	3A
20	Training	PDR	Eighth field of DYST mnemonic (Not required = N, required-completed = RC, required-not completed = RN)	2A
21	Battery	PDR	Sixth field of UPC mnemonic (A,B,C,S,H)	1A
22	Section	PDR	Seventh field of UPC mnemonic (an integer from 1-9)	1N
23	Teams	PDR	Number of times the eighth UPC variable appears or, if detail is desired, the contents of the eighth and ninth variables will be given. (an integer from 1 to 13, date)	2N or (2N,6N) x number of teams
24	PRP	PDR	First field of PRP mnemonic	1A
25	Deployable	PDR	First field of DEPL mnemonic	1A
26	Special Rations	PDR	Third field of MCDN mnemonic	1A
27	Meal Card Number	PDR	First field of MCDN mnemonic	8A
28	Position No. 2	PDR	First field of POSN2 mnemonic (field position number)	4A
29	Team Title	PDR	First field of SCHL mnemonic (course title)	4A
30	Team Leader	PDR	If a "Y" appears in the tenth variable of the UPC mnemonic for a given team, the second variable of the NAME mnemonic (abbreviated name) appears	5A

Exhibit 5-19. Suggested Unit Skill Inventory Report

Report Covering:

(put "x" in appropriate box)

- Battery A
- Battery B
- Battery C
- Battery SVC
- Battery HHB
- Battalion

1. Date of Report XX.XX.XX
2. Prepared by \_\_\_\_\_ (user entry)

	E1, E2, E3	E4	E5	E6	E7	E8	E9	TOTAL
3-MOS	4-RE-AU-AS	RE-AU-AS	RE-AU-AS	RE-AU-AS	RE-AU-AS	RE-AU-AS	RE-AU-AS	RE-AU-AS
XXX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XXX XXX XXX
XXX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XX XX XX	XXX XXX XXX
XXX	XX XX XX	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	XXX XXX XXX
XXX	XX XX XX	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	XXX XXX XXX
XXX	XX XX XX	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	XXX XXX XXX
. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
5-Tot	XX XX XX	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	XXX XXX XXX

**Exhibit 5-20. Skill Inventory Report Specifications**

<b>Variable Number</b>	<b>Variable</b>	<b>Origin</b>	<b>Comments</b>	<b>Data Field Size</b>
1	Date	DBMS-Automatic	Date Prepared	6 N
2	PMOS	Personnel Data Record (PDR)	First field of PMOS mnemonic	5 N
3	RE-AU-AS	ATUTMS-Opera- tions, PDR	Required, authorized, assigned strength levels by grade (from MTOE)	3N,3N,3N
4	Total	Variable 3 Totals	Sum of all Column and Row Entries	3N,3N,3N

## SECTION 6

### LOGISTICS DATA BASE, REPORTS, AND PROCEDURES

This section provides the user requirements which are necessary to implement the ATUTMS logistics capabilities. These requirements address the formation and update of the data base, the generation of output reports, and the procedures necessary for using the system. Wherever applicable, interfaces with existing, related manual and automated systems will be discussed. Areas to be addressed by these requirements include security and access to data, suggested report formats, rates and volumes for transactions and report generation, and identification of users and support personnel. Specific on-line capabilities and procedures/computations necessary to transform inputs into outputs are discussed in the user's guide.

#### 6.1 ATUTMS LOGISTICS CAPABILITIES

Exhibit 6-1 presents the logistics activities to be encompassed by ATUTMS. As stated in Section 1, Project Rationale, ATUTMS will be implemented in two phases. The capabilities to be addressed in Phase I include management of equipment and maintenance, the assignment of responsibility for property issued to the unit, and the accountability and management of stocks which are stored for issue. The dispatch of equipment and automatic updating of the Prescribed Load List will be added in Phase II. The relationships of the inputs and outputs to the logistics data base for 1/11 FA are shown in Exhibit 6-2. On this exhibit the applicable DA forms are given for each process. The numbers within parentheses refer to the sections of this document which set forth the detailed requirements.

##### 6.1.1 ATUTMS Logistics Data Base Contents

The ATUTMS logistics data base will consist of the battalion-utilized equipment data currently contained within the DLOGS system. Additionally, data on equipment maintenance will also be included. The individual data elements to be included in ATUTMS for logistics are outlined in Exhibit 6-4 later. The data base itself will be initialized by obtaining a DLOGS data tape to which ATUTMS specific data will be added at the battalion. There will be one master record for each piece of equipment, which will contain all data elements and a record of each status change that has affected the item. As discussed later in Section 6.3.1, it will be helpful to check the ATUTMS data base against the appropriate DLOGS output periodically.

##### 6.1.2 Security of ATUTMS Logistics Data

Security with respect to logistics concerns viewing and update capabilities of the various output reports rather than the data base as a whole which is the case in ATUTMS Personnel. Many different individuals at the battalion and battery level will interface with the logistics system. Sensitive information such as unfavorable personnel actions is not a concern here. However, it is important that data on the overall state of readiness of battalion equipment should only have limited access. To that end, it is

Exhibit 6-1. ATUTMS Logistics Capabilities

INPUT

Data input and update.

OUTPUT

Consolidated property file.

Hand receipt file.

Document register file.

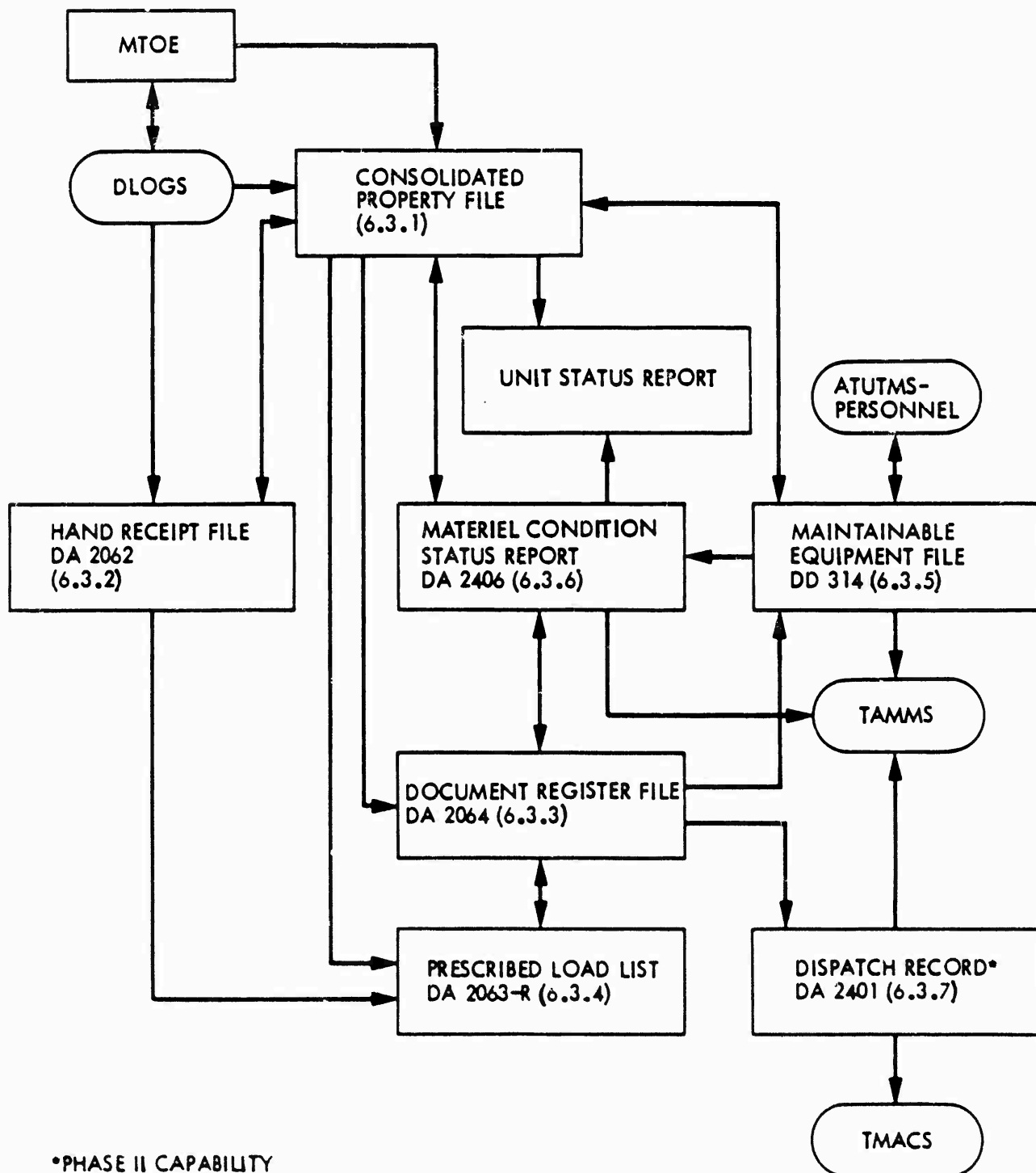
Prescribed load list.

Vehicle/reportable equipment file.

Materiel condition status report.

Dispatch record (Phase II).

Exhibit 6-2. ATUTMS Logistics Information Flow for 1/11 FA



recommended that only the S4, battalion commander, and exec have viewing capabilities for all output reports for the batteries and battalion. Exhibit 6-3 is a table of viewing and update allowances for battalion and battery personnel with respect to the ATUTMS Logistics system which was tailored for 1/11 FA. In order to ensure the integrity of the data base note that only from 1 to 5 different personnel types have update responsibility for each report. As in the case of the ATUTMS-Personnel data base, the restriction for use of the logistics data base will be predicated on the user access code and password.

## 6.2 LOGISTICS DATA INPUT

Logistics data will be entered into ATUTMS by those soldiers who currently monitor and maintain records on equipment and maintenance manually, usually on a daily basis (see Exhibit 6-3). Each piece of battalion equipment will have a separate logistics data record. The information on the record will be very similar to that currently kept on the various current DA forms shown on Exhibit 6-2, Logistics Information Flow. As opposed to the personnel data base, where the data record variables are the same for each soldier, in logistics the variables for each piece of equipment will vary depending on the equipment classification, frequency of re-orders, and maintenance requirements. The basis for the ATUTMS-Logistics data base will be the existing DLOGS system. Additionally, data on requisitioned items, highly used repair parts, and vehicle and weapon maintenance will also be included in ATUTMS. The complete list of variable specifications for the logistics data base is shown in Exhibit 6-4. In addition to the equivalent personnel data base exhibit (Exhibit 5-4), Exhibit 6-4 contains a column that indicates the equipment class covered by each data base variable. The logistics system will be menu driven and accessed from the main system menu by selecting "Logistics Update."

Exhibit 6-5 shows a suggested menu for making logistics updates, while Exhibit 6-6 contains the data field specifications for each input on the menu plus data origin and comments. The next step is to provide the necessary information for the menu. The required codes for the desired logistics report will be found by referring to the user's guide. (Exhibit 6-6 has suggested codes.) Depending on the output report to be updated, the relevant variables from the logistics data base will appear on the screen. (Exhibit 6-7 shows the output report that each variable corresponds to.) The user will then be able to type new data over existing entries (see Exhibit 6-8). This exhibit also addresses the additions or deletions of entire line entries. Once a successful entry is made, the update will be automatically processed. For all logistics transactions, errors and inconsistencies will be checked for by the system. A message will appear on the screen indicating that the transaction was successfully processed, or if a problem exists, what the nature of the error is.

## 6.3 ATUTMS LOGISTICS OUTPUTS

The Phase I capabilities of ATUTMS-Logistics include output standard reports such as, a consolidated property report, a hand receipt report, a document register report, a prescribed load list, a vehicle/reportable equipment report, and a materiel condition status report. The user's guide will contain

Exhibit 6-3. Security Restrictions for ATUTMS-Logistics Data Base

Output Report							
Staff Member	Consolidated Property	Hand Receipt	Document Register	Prescribed Load List	Maintainable Equipment	Materiel Condition Status	Dispatch Record
Battalion Commander	V	V	V	V	V	V	V
Executive Officer	V	V	V	V	V	V	V
S3	V	V			V	V	V
S4	V, U	V	V	V	V	V	V
Battalion Motor Officer	V	V	V	V	V	V, U	V, U
Communications Officer	V	V				V	
Battalion Supply Sergeant	V	V			V, U		
Battalion PLL Clerk			V	V			
Battalion TAMMS Clerk					V, U	V, U	V
Battery Commanders	V, U	V, U	V	V		V	
Sergeant Major		V					
Battery Supply Officers		V	V			V	
Battery Supply Sergeants	V, U	V, U			V, U		
Battery PLL Clerks			V, U	V, U			
Battery TAMMS Clerks					V, U	V, U	V, U
Battery Motor Officers		V	V	V	V	V, U	V, U
Document Records Clerk			V, U				
Motor Sergeant			V	V	V	V, U	V
Individuals Responsible		V					

V - Viewing capability

U - Update responsibility

Exhibit 6-4 missing from incoming manuscript.

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Exhibit 6-3. Security Restrictions for ATUTMS--Logistics Data Base

Output Report							
Staff Member	Consolidated Property	Hand Receipt	Document Register	Prescribed Load List	Maintainable Equipment	Materiel Condition Status	Dispatch Record
Battalion Commander	V	V	V	V	V	V	V
Executive Officer	V	V	V	V	V	V	V
S3	V	V	V	V	V	V	V
S4	V, U	V	V	V	V	V	V
Battalion Motor Officer	V	V	V	V	V	V, U	V, U
Communications Officer	V	V	V	V	V	V	V
Battalion Supply Sergeant	V	V	V	V	V, U	V	V
Battalion PLL Clerk	V	V	V	V	V, U	V, U	V
Battalion TAMS Clerk	V, U	V, U	V	V	V	V	V
Battery Commanders	V, U	V	V	V	V	V	V
Sergeant Major	V	V	V	V	V	V	V
Battery Supply Officers	V	V	V	V	V	V	V
Battery Supply Sergeants	V, U	V, U	V, U	V, U	V, U	V, U	V, U
Battery PLL Clerks	V	V	V	V	V	V, U	V, U
Battery TAMS Clerks	V	V	V	V	V	V, U	V, U
Battery Motor Officers	V	V	V	V	V	V, U	V, U
Document Records Clerk	V	V	V	V	V	V	V
Motor Sergeant	V	V	V	V	V	V, U	V
Individuals Responsible	V	V	V	V	V	V, U	V

V - Viewing capability

U - Update responsibility

Exhibit 6-6. Suggested Logistics Update Menu - Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Transaction Date	User	Date Prepared - YR.MO.DA	6N
2	Logistics Report to be Updated	User	3 Fields - Output Report Code, Battery Code, Property Type Code Suggested Codes: <u>Output Reports</u> Consolidated Property File = 1 Hand Receipt File = 2 Document Register File = 3 Prescribed Load List = 4 Maintainable Equipment File = 5 Materiel Condition Status File = 6 Dispatch Record File = 7 <u>Battery Codes</u> Battery A = A Battery B = B Battery C = C Service Battery = SVC Headquarters Battery = HHB Battalion = BN <u>Property Type*</u> Organization = ORG Installation = STA Housing = HSG**	1N,3A,3A
3	Originator	User	First field of NAME variable from ATUTMS - Personnel	27A

\* Only to be used for output reports 1 and 2

\*\* Not to be used for output report 1

# Exhibit 6-7. Relevant Output Reports for Logistics Data Base Variables

Variable Number	Variable	Abbreviation	Consolidated Property File	Hand Receipt File	Document Register File	Prescribed Load List	Maintainable Equipment File	Material Condition Status File	Dispatch* Record File	Non-File Dependent Variables
1	Line Number		X	X			X			
2	National Stock Number	NSN	X	X	X	X		X		
3	Equipment Readiness Category	ERC	X	X			X	X		
4	Subline Number		X							
5	Nomenclature		X	X	X	X		X		
6	Model		X			X	X	X		
7	Quantity-Required		X	X						
8	Quantity-Authorized		X	X		X		X		
9	Quantity-On-Hand		X	X		X		X		
10	Quantity-On-Order		X		X					
11	Document Number		X							
12	Priority		X		X					
13	Status		X		X					
14	Serial Number		X	X	X		X	X		
15	Hand Receipt Number		X	X	X					
16	Unit Identification Code	UIC	X	X	X	X	X			
17	Unit of Issue			X		X				
18	Date of Last Adjustment			X						
19	Current Date				X				X	
20	Document Sent To				X					
21	Bumper Number				X		X	X	X	
22	Partial Issue/Turn In				X					
23	Price/Amount of Requisition				X					
24	Date Completed				X					
25	Project Code/Remarks				X					
26	Source						X			
27	Weapon Equipment Design Code	WESDC					X			
28	Driver Name						X			
29	Driver SSN						X			
30	Subsystems						X			
31	Scheduled Service						X	X		
32	Last Oil Change						X			
33	Last Rebuild						X			
34	Last Sample						X			
35	Remarks						X			
36	Miles-On-Peak								X	
37	Miles-Off-Peak								X	
38	Hours								X	
39	Gages/Diesel								X	
40	Rounds Fired								X	
41	Date-Out								X	
42	Date-In								X	
43	Sequence Number							X		
44	Effects on System	EOS						X		
45	Equipment Category Code	ECC						X		
46	Support-8-Days							X		
47	Non-Available ASN							X		
48	Shop Number							X		
49	Comments							X		
50	Class			X	X					
51	Stat/Org/Housing									X
52	Downtime						X	X		
53	PLI Action				X					
54	Battery					X				
55	Remarks					X				
56	Remarks								X	
57	Reporting Period							X		
58	Support-4-Days							X		
59	General Comments							X		
60	Utilization Code							X		

\*Phase II Capability

Exhibit 6-8. Example of Suggested ATUTMS Screen for Logistics Update Data Elements

If the Consolidated Property File (1, 2A, 2B) is to be updated, information similar to that shown below will appear on the screen. The user can then make any necessary changes. Complete lines can be added or deleted by inserting an A or B in the last field. Any other entry in this field will have no impact on a given line of output.

Battalion Organization Property File												11-23-83		
Line #	Subline #	MSR	Quantity				SAC	Description	Model	Document #	Priority	Status	UIC	Line Addition (A) or Deletion (B)
			Req	Auth	On-Hand	On-Order								
A03165		7340001333492	1		1		Tarp-Bows	F/TLR 3/6T			03		DCLAO	
		7340001333493	3		3		Tarp-Bows	F/TLR 3/6T			03		DCLTO	
	Total			4		4		Percent Fill						
A03116			1		1		Accessory Outfit Cool				06		DCLAO	
		7340000626192	1		1		Accessory Outfit Cool				06		DCLAO	
		7340001876757				1	Accessory Gas Fld Bag 341				06		DCLAO	
Total			2		2		Accessory Gas Fld Bag 341				06		DCLAO	
						1	Accessory Gas Fld Bag 341				06		DCLAO	
Total			2		2		Percent Fill							
						100.0	Percent Fill							

instructions for hard, paper copies of the output reports. This section defines the requirements and objectives for each output item, presents sample reports, and provides computer output specifications.

#### 6.3.1 Consolidated Property Report

This report will be similar to the current Property Book Roll-Up which is produced by the DLOGS system. (Publications TM 38-L22-11 and TM 38-L22-12 explain the procedures for using DLOGS.) It also covers data that is included in the MTOE. This report provides a means for tracking property status. It is the basic foundation for the complete ATUTMS-Logistics system. It covers class 7 (major end items: vehicles, weapons) and one class 9 item (tape transport cartridges). It contains approximately 2000 entries and is used daily by the S4, battalion commander, battalion motor officer, the exec, the battery commanders, and the battery and battalion supply sergeants. It is used less frequently (weekly) by the battalion communications officer and the S3. Updates are made by the S4, and the battery supply sergeants. There are usually fewer than 10 updates/week. There will be two versions of this report; a summary version for the entire battalion and one for each battery (the battery version will include serial and hand receipt numbers). These two versions will be further broken down into installation (buildings and lamps) and organization (major end items) property. Subtotals for each major line number will be given within the output reports. The suggested format and specifications for the ATUTMS Consolidated Property Report are given in Exhibits 6-9 and 6-10. The origin column on Exhibit 6-10 indicates where the original input data emanates from. In this case most of the data comes from the existing DLOGS and MTOE computer tapes which are then copied into the ATUTMS system. On the other output reports to be described in this section, this column will indicate which previous ATUTMS-Logistics report also contains the same variable. A sample copy of a current DLOGS Property Book Roll-Up is given in Appendix B.

The Consolidated Property Report can be compared to the DLOGS generated Property Book Roll-Up. When inconsistencies are found, the DLOGS processing center will be notified and corrective action taken following discussions held between the DLOGS center and the battalion (exec and S4).

#### 6.3.2 Hand Receipt Report

The Hand Receipt Report identifies property location and the individual responsible for the property (see DA Pam 710-2-1). As is the case with the Consolidated Property Report, it is currently part of the DLOGS system. It covers property classes 2, 7, and 8. Within the covered property classes there are three types of property breakdowns; organization (e.g., trucks, howitzers), installation (e.g., buildings, lamps, and beds), and housing (e.g., beds, pillow cases, and mattresses). Each different hand receipt number will appear on a different output report. There are about 30 reports per battery and about 10 to 40 lines per report (a total of about 3750 lines for the entire battalion). The battalion version is a summary of the battery reports. Updates are made by the supply sergeants. Typically, there are standard semi-annual updates but there are also additions and deletions made when

property is lost, requisitioned, or moved. This report is used daily by the battery supply officers and sergeants, and battery commanders. It is used less frequently by the S4, battalion supply sergeant, battalion commander, sergeant major, executive officer, and the responsible individual for each piece of listed equipment. The suggested format and specifications for the ATUTMS Hand Receipt Report are given in Exhibits 6-11 and 6-12. A sample DA 2062 like one currently in use is given in Appendix B. As is the case with the ATUTMS Consolidated Property Report, the Hand Receipt Report can be compared for consistency to existing DLOGS output (Hand Receipt Report Listing).

#### 6.3.3 Document Register Report

This report is a record of all items requisitioned by a unit. From this report monthly external budget reports are derived. It is similar to the existing DA Form 2064 (see DA Pam 710-2-1).

Six versions of this report will be generated by ATUTMS; one for each battery that addresses repair parts (class 9) and one for the battalion that covers general supplies (classes 2, 3, 4, 5, and 7) which will be used by the S4. Daily inputs are made throughout the year by the battery PLL clerks and the document records clerk (under the direction of the S4). The entire register is re-initialized annually. About 1500 to 2500 lines per year are generated by each battery and another 1500 by the battalion (a total of about 11500 lines/yr). This report will be accessed by the battery and battalion motor officers and commanders, PLL clerks, and document records clerk. In the Phase I version, the cognizant individuals will have to maintain separate, manual records of requisitions that cause an item to be added or deleted from the Prescribed Load List (see Section 6.3.4). In the Phase II version of the Document Register Report, PLL qualifications and ordering levels will be monitored automatically. The suggested format and specifications for the Phase I ATUTMS Document Register Report are given in Exhibits 6-13 and 6-14. A sample DA 2064 currently in use is given in Appendix B.

#### 6.3.4 Prescribed Load List

This report is the inventory of selected class 9 items (repair parts) which are supposed to be on hand within each battery (see DA Pam 710-2-1). An item is eligible for inclusion on a battery's Prescribed Load List (PLL) once three or more orders have been made for it from within a particular battery within 180 days. Once on the list, only one order in 180 days keeps it from becoming eligible for deletion. This list is important because failure to stock high frequency items may impact training readiness. Daily updates are made by the battery PLL clerks when requisitioned items are received or used. There are about 150 PLL line items per battery and there are about 20 to 50 new weekly requisitions per battery. A separate list for each battery can be generated as well as a summary battalion list. This list is used by the battalion and battery motor officers, battalion and battery PLL clerks, battalion and battery commanders, and the battalion executive officer. As stated in Section 6.3.3, in Phase I the PLL clerks will have to maintain manual records of items eligible for addition to or deletion from the list. In Phase II this will be handled by the internal processing of the Document

Register File along with appropriate queries of the PLL clerks by ATUTMS. The suggested format and specifications for the ATUTMS Prescribed Load List are given in Exhibits 6-15 and 6-16. A sample manual Prescribed Load List currently in use (DA 2063-R) is given in Appendix B.

#### 6.3.5 Maintainable Equipment Report

This report monitors the scheduled and unscheduled downtime of equipment that requires maintenance. It will contain information that is currently included on the preventive maintenance schedule and record (DD 314) and oil analysis log (DA 2408-20). This type of data is used as input to The Army Maintenance Management System (TAMMS) (see DA Pam 738-750). This report will be updated by the battery and battalion TAMMS and supply sergeants. There will be a separate output report for each vehicle although up to 10 weapons can be covered in one report (in such a case the individual weapon serial numbers will be listed under remarks). Generally, 0 to 60 pieces of equipment are down at any given time (the average is about 6 per battery). This currently results in about 500 active DD 314's for the entire battalion. This report will be used by the battery and battalion motor officers, supply sergeants, and TAMMS clerks. The suggested format and specifications for the ATUTMS Maintainable Equipment Report are given in Exhibits 6-17 and 6-18. Sample DD 314 and DA 2408-20 forms are given in Appendix B.

#### 6.3.6 Material Condition Status Report

This report monitors information on the availability and status of major equipment that requires high levels of maintenance (vehicles, howitzers, and other class 7 items) (see DA Pam 738-750). This is currently done on DA Form 2406. The ATUTMS Materiel Condition Status Report will be updated daily by the battalion and battery motor officers, battalion motor sergeant, and battery TAMMS clerks. Output reports are required for each battery every 15 days. Usually about 25 line items per month will be generated. This report will be used by the battalion and battery commanders, executive officers, and the communications officer. The output data on the percentage of available days for individual pieces of equipment will be used as inputs to the Unit Status Report. Other data within the output reports will be used as inputs to TAMMS. The suggested format and specifications for the ATUTMS Materiel Condition Status Report are given in Exhibits 6-19 and 6-20. Appendix B contains a sample DA 2406 report.

#### 6.3.7 Dispatch Record

This report will maintain a fiscal year historical record of vehicle dispatching and will be implemented in Phase II of ATUTMS. Such records are currently maintained on form DA 2401 (see DA Pam 738-750). It will be filled out and used by the battery and battalion TAMMS clerks and motor officers. Its data can be used as inputs to the TMACS and TAMMS systems. Currently, there is about one report form per battery daily. Each report form usually has about 10 lines per day although in the worst case there could be as many as 180 lines. The suggested format and specifications for the ATUTMS Dispatch Record are given in Exhibits 6-21 and 6-22. Each report's monthly totals will be re-initialized every month. A sample DA 2401 is given in Appendix B.

**Exhibit 6-9. Suggested Consolidated Property File Report - Specifications**  
**Consolidated Property File Report (Battalion)**

Property Type XXX									
Line #	Sublin #	MSN	Quantity				Model	Document #	UIC
			Req	Auth	On-Hand	On-Order			
XXXXXX	XXXXXX	XXXXXXXXXXXX	XXX	XXX	XXX	XXX	X	XXXXXXXXXXXXXXXXXXXX	XXXX

**Consolidated Property File Report (Battery)**

Battery XXX Property Type XXX									
Line #	Sublin #	MSN	Quantity				Model	Document #	UIC
			Req	Auth	On-Hand	On-Order			
XXXXXX	XXXXXX	XXXXXXXXXXXX	XXX	XXX	XXX	XXX	X	XXXXXXXXXXXXXXXXXXXX	XXXX

Exhibit 6-10. Suggested Consolidated Property File Report - Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Line #	MTOE		6A
2	National Stock #(NSN)	DLOGS		13A
3	Equipment Readiness Category (ERC)	MTOE	A, B, or C*	1A
4	Subline #	DLOGS	Property with no Line # will have a Subline #	6A
5	Nomenclature	MTOE, DLOGS		20A
6	Model	DLOGS		7A
7	Quantity-Required	MTOE		3N
8	Quantity-Authorized	MTOE		3N
9	Quantity-On-Hand	DLOGS		3N
10	Quantity-On-Order	DLOGS		3N
11	Document #	DLOGS		15A
12	Priority	DLOGS	03, 06, or 13**	2N
13	Status	DLOGS	Status, date	2A, 6N
14	Serial #	DLOGS		12N
15	Hand Receipt #	internal processing, user	Section or person responsible	3N
16	Unit Identification Code(UIC)	MTOE	Battery to which equipment is assigned	5A

\* These codes are based on urgency of need, and are listed in the MTOE.

\*\* These priority designators are based on the Uniform Materiel Movement and Issue Priority System (UMMIPS). The 1/11 FA has a Force/Activity Designator (FAD) of III and is therefore assigned the priority designators of 03 (10 days standard delivery time), 06 (14 days), and 13 (32 days). See DA Pam 710-2-1 for further information.

# Exhibit 6-11. Suggested Hand Receipt File Report

Hand Receipt File Report									
Line #	MSM	Nomenclature	Serial #	Unit of Issue	UIC XXXX	BATTERY XXX	Property Typ XXX	Hand Receipt # XXX	ERC
							Quantity Auth On-Hand	Date of Last Update	
XXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XX	XX	XX	XX	XXXXX	X

Exhibit 6-12. Suggested Hand Receipt File Report - Specifications

Variable Number	Variable	Origin	Comments	Data Field Size
1	Line #	Consol. Prop. Rep. (CPR)		6A
2	National Stock #(NSN)	CPR		13A
3	Nomenclature	CPR		20A
4	Serial #	CPR		12N
5	Unit of Issue	DLOGS	Physical dimensions	2A
6	Quantity-Authorized	CPR		3N
7	Quantity-On-Hand	CPR		3N
8	Date of Last Update	DLOGS	The last time this Line # had a gain or loss	6N
9	Equipment Readiness Category (ERC)	CPR		1A
10	Unit Identification Code (UIC)	CPR		5A
11	Property Type	User	Class Number	2N
12	Hand Receipt Number	CPR		3N

6-18

\* Monthly totals will be provided at the bottom of these columns.

Exhibit 7-8. Detailed Content of the Data Base for Collective Training -- Reference Data for an ARTEP Mission

<u>Field Name*</u>	<u>Estimated** Characters</u>	<u>Definition/Comments</u>
1. Mission code	8	Format for code is X-XX-X.
2. Mission name	50	As used in the ARTEP manual.
3. Unit designation	variable: 10-150	Identification of the units to which this ARTEP mission applies; allow for up to fifteen different units, with 10 characters used to identify each unit.
4. Subordinate element missions	variable: 6-35	Supporting missions to be performed by subordinate elements; provision is made for up to six mission codes, separated by commas.
5. No. of tasks in this mission	variable: 1-30N	
6. List of tasks in this mission	variable: 60-1800	
a. Task Code	8	Format for code is X-XX-X-X; the last character is in ascending numerical sequence, beginning with 1.
b. Task name	50	As used in the ARTEP manual
c. Task weight	2N	Numerical value lying between 0 and 10 which expresses the relative importance of this task to overall mission, to be used in determining the training status of the parent mission.

\* Items 1-6b may be obtained from the relevant ARTEP manual, in consultation with the unit for which ATUTMS is being implemented. Items 6c, the task weight, must be obtained from the unit commander and the principal trainers/evaluators.

\*\* Field contents are alphanumeric unless otherwise indicated.

Exhibit 7-9. Detailed Content of Collective Training Data Base -- Reference Data for ARTEP Tasks

<u>Field Name*</u>	<u>Estimated** Characters</u>	<u>Definition/Comments</u>
1. Task Code	8	Format is X-XX-X-X.
2. Task name	50	As in ARTEP manual.
3. Unit Identification	15	As specified in the ARTEP manual.
4. Time to train initially	3	Time in hours (to the nearest whole hour) for the unit to become proficient in this task, given no previous training.
5. Time for refresher training	3	Time in hours (to the nearest whole hour) for the unit to become proficient, given that it was previously qualified on this task.
6. Decay time	2	Time in months (to the nearest whole month) for task proficiency of a previously qualified unit to decay from green to amber, given no intervening refresher training or experience in performing this task, and no turbulence within the unit.
7. Supporting Soldier's Manual Tasks	variable 0-240	Provision is made for up to 20 Soldier's Manual tasks, and identified by the standard 11-digit code, and separated by commas.
8. Comments	200	A field providing any additional information crucial to the planning or management of this task.

\* Items 1-3 are repeated here for completeness only. Item 7 is obtained from the ARTEP manual, in consultation with the trainer responsible for this task. Items 4-6 and 8-11 must be obtained directly from the trainer of the unit in question. In some instances the unit input to TMACS may be of assistance -- assembling ammo resources (item 9) and required equipment (item 10).

\*\* Field contents are alphanumeric unless otherwise specified.

Exhibit 7-9. (cont'd)

<u>Field Name*</u>	<u>Estimated** Characters</u>	<u>Definition/Comments</u>
9. Ammo resources	Variable length table	See attachment A, Exhibit 7-9.
10. Vehicle and equipment resources	Variable length table	See attachment B, Exhibit 7-9.
11. Range or maneuver area requirements	60	Identification of range or maneuver area needed, together with the required hours of range time, in order of decreasing preference; provision is made for three range or maneuver areas; use format of Exhibit 7-23.

Exhibit 7-9. Attachment A -- Ammo Resources (1)

<u>DODIC(2)</u>	<u>DESCRIPTION(3)</u>	<u>ROUNDS(4)</u>	<u>NO. CASES(5)</u>
XXXX	XXX . . . . .	XXX	XXX.X
XXXX	XXX . . . . .	XXX	XXX.X
XXXX	XXX . . . . .	XXX	XXX.X
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.
.	.	.	.

Notes:

- (1) Ammo table must accommodate up to 100 items.
- (2) DODIC no. is a unique 4-character identifier of ammo types.
- (3) Description, employing MTOE terms is allotted 60 characters.
- (4) No. of rounds for one repetition of the task; four characters are allocated.
- (5) No. of cases required to furnish the indicated no. of rounds, to the nearest tenth of a case; five characters including a decimal point are allocated.

Exhibit 7-9. Attachment B -- Vehicle and Equipment Resources (1)

MTOE (2)	NO. (3) REQ.	DESCRIPTION (4)	AVERAGE USAGE (5)		GALLONS OF FUEL (6)
			MILES	HOURS	
XXXXXXXX	XXX	XXX . . . . .	XXX	XXX	XXXXX
XXXXXXXX	XXX	XXX . . . . .	XXX	XXX	XXXXX
XXXXXXXX	XXX	XXX . . . . .	XXX	XXX	XXXXX
XXXXXXXX	XXX	XXX . . . . .	XXX	XXX	XXXXX
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.

Notes:

- (1) Vehicle and equipment table must accommodate up to 30 items.
- (2) MTOE code for this item.
- (3) Number of items required for this task.
- (4) Item description in terms used by the MTOE. 60 characters are permitted.
- (5) Average usage for one item in terms of miles driven or hours of operation, whichever is appropriate.
- (6) Gallons of fuel required to operate each piece of equipment; software should provide for miles, hours, and gallons estimates to be independent or derivable from one another.

#### 7.4.2 Status Data for ARTEP Training

Access to the module containing data on ARTEP training is obtained by selecting ARTEP TRAINING RECORDS from the main training menu described in Exhibit 7-2. Exhibit 7-10 portrays the menu for handling ARTEP status transactions. It is virtually identical to the comparable menu for MOS status (see Exhibit 7-26):

##### Exhibit 7-10. Menu for ARTEP Training Status

- o ENTER/EDIT TRAINING STATUS FOR UNIT \_\_\_\_\_,  
ARTEP \_\_\_\_\_, MISSION \_\_\_\_\_, TASK \_\_\_\_\_.
- o ENTER/EDIT TRAINING STATUS FOR TRAINING EVENT (code).
- o VIEW TRAINING SCHEDULES.
- o QUERY.

The first command lets the user edit the status of a particular ARTEP mission or task, whereas, the second permits rapid status updating for a group of missions or tasks that were trained together. The third and fourth commands allow the user to refer quickly to training schedules of interest or compose a query about ARTEP status (or any other topic).

Exhibit 7-11 details the content of the records describing the status of ARTEP training. Although rather similar to the record of MOS training, ARTEP training records incorporate several unique features -- including a coded description of time of day, weather and Mission Oriented Protective Posture (MOPP) level; an identification of the evaluator as well as the principal trainer; and a list of those who did not participate in a particular training exercise. This last item is important in determining training readiness some months hence when the unit may have lost a sizable fraction of its strength due to reassignment of personnel. Carrying a list of non-participants in the training record requires that the personnel component of ATUTMS store weekly rosters of assigned personnel, a report which will doubtless have many other applications.

Exhibit 7-12 is a draft of the proposed data input form, suitable for implementation either as a video display or as a paper and pencil form. It presumes that a group of tasks relevant to an ARTEP mission will be trained simultaneously, with each one being scored green/yellow/red. Note that item 9 on the form records an overall mission proficiency score (green/yellow/red), which may be computed automatically using the weights assigned each task, or may be assigned directly by the trainer/evaluator. The algorithm for automated mission scoring is defined in note 9 on Exhibit 7-12. In addition to task proficiency scores, the data form records notable environmental conditions under which training was performed: time of day, weather, and MOPP level. Finally, attention is drawn to a training event code (item 2) which ties to an event on the training schedule and a list of personnel slated to train on this set of ARTEP tasks.

Exhibit 7-11. Detailed Content of ARTEP Training Data Base -- Unit Training Status for ARTEP Missions or Tasks

Field Name*	Estimated** Characters	Definition/Comments
1. Unit Identification	11	Permitted identifiers are BATTALION BATTERY A, etc BAT A Sec 1, HQ HQ BAI HHB Sec 1, etc. SVC BAI
2. ARTEP mission/ task code	8	Use format employed in ARTEP manual: X-XX-Y-I.
3. Date of last training	6	Format is YY.MM.DD.
4. Trainer's identification	15	Trainer's last name, first initial, and rank.
5. Evaluator's identification	15	Evaluator's last name, first initial, and rank.
6. List of unit members who did <u>not</u> participate	variable 15-3000	This information is obtained from the Daily Personnel Status Report (see Section 5.3.3.1), modified to reflect those actually present for training..
7. Training Conditions	5	Field contents are I/W/M, where I: time of day, coded as <u>Day</u> or <u>Night</u> W: weather, coded as <u>Mild</u> , <u>Windy</u> , <u>Rain</u> , or <u>Cold</u> . M: MOPP level, coded as 1, 2, 3, and 4,
8. Current training status	1	Estimate of current capability to perform this mission/task: R -- clearly unsatisfactory; Y -- partially trained; G -- satisfactorily trained.
9. Comments	200	Notable conditions, qualifiers, observations, etc.

Notes to Exhibit 7-11.

- a All of the data in this exhibit must be obtained from the individual responsible for conducting training. It is proposed that these data be recorded on a form like the one depicted in Exhibit 7-12.
- aa Field contents are alphanumeric unless otherwise indicated.

Exhibit 7-12. Data Entry Form for ARTEP Training Records -- Unit Training Status on ARTEP Tasks

Unit: (1) \_\_\_\_\_ Training Code: (2) \_\_\_\_\_ Date: (3) \_\_\_\_\_  
 Trainer: (4) \_\_\_\_\_ Evaluator: (5) \_\_\_\_\_  
 Special Conditions: (6) \_\_\_\_\_  
 Time of Day: \_\_\_\_\_ Weather: \_\_\_\_\_ MOPP Level: \_\_\_\_\_  
 Other Comments: (7) \_\_\_\_\_

Mission: (8) \_\_\_\_\_ Code \_\_\_\_\_ Title \_\_\_\_\_  
 Overall Mission Status: (9) \_\_\_\_\_ Evaluator \_\_\_\_\_ Auto Score \_\_\_\_\_ Last ARTEP \_\_\_\_\_

Tasks:

Code (10)	Title (11)	Wt (12)	Status (13) (G/Y/R)	Remarks (14)
X-XX-X-X	XXXXX . . . . .	X	X	XX. . XX
X-XX-X-X	XXXXX . . . . .	X	X	XX. . XX
X-XX-X-X	XXXXX . . . . .	X	X	XX. . XX
X-XX-X-X	XXXXX . . . . .	X	X	XX. . XX
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

Notes to Exhibit 7-12.

- (1) Identification of the unit to which this ARTEP mission (or other collective training activity) pertains.
- (2) Computer-assigned code to the set of collective tasks which are scheduled for training on the indicated date.
- (3) Date training was performed, in format of YY.MM.DD.
- (4) Trainer's last name, first initial, and rank.
- (5) Evaluator's last name, first initial, and rank.
- (6) Description of time of day, weather, and MOPP level, according to the format of item 7, Exhibit 7-11.
- (7) Comments on other pertinent factors.
- (8) Mission code (in ARTEP format) and abbreviated mission title.
- (9) Overall mission status (green, yellow, red) determined in two ways: 1) by the subjective judgment of the evaluator, and 2) by a computerized score which is calculated from the individual task insight and scores, overall scoring thresholds follow:
  - o Green: at least 80% of maximum attainable score.
  - o Yellow: from 50% to 79% of maximum attainable score
  - o Red: no more than 49% of maximum attainable score.
- Provision is also made to display performance during the last formal ARTEP.
- (10) Task code in ARTEP format.
- (11) Abbreviated task title.
- (12) Relative importance of this task to overall ARTEP mission performance; weight is assigned on a scale from 1 to 10.
- (13) Status is green (fully trained), yellow (partially trained), or red (untrained).
- (14) Space is provided for brief comments on the status of each task.

#### 7.4.3 Preformatted Summaries of ARTEP Training

To obtain a quick, overall picture of ARTEP training status, one selects the main menu command AGGREGATE ARTEP TRAINING STATUS from the main training menu of Exhibit 7-2. The menu for this module permits the user to either select among the preformatted reports available or compose a query. Currently, two summaries of overall ARTEP status are planned.

Exhibit 7-13 portrays the status of mission proficiency, while Exhibit 7-14 focusses on specific tasks within an ARTEP mission. It is intended that the user be able to specify which missions and tasks should appear in each of these reports. Both reports present aggregate battalion proficiency, together with proficiency estimates at the battery level. There is no intent to carry this kind of analysis down to the section level. Each of these reports appears in two versions: Version A presents current status and date of last training, while Version B portrays status together with the three critical environmental conditions under which training was accomplished. It was felt that putting all of this information on one page (video display) would be confusing to the user.

The topic of collective training is continued in Section 7.5, which defines the data base and preformatted reports pertinent to the training of special teams within a battalion and its subordinate units.

Exhibit 7-13. Training Status for ARTEP Missions -- Battalion and Battery Aggregates (1)

A. DATE - STATUS VERSION:

MISSION(2)	DATE OF LAST TRAINING AND ESTIMATED CURRENT STATUS(3)			HNB
	BATTALION	BATTERY A	BATTERY B	
X-XX-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

Notes:

(1) Report is intended to show the status of the battalion and all of its subordinate units.

(2) Mission format is the same as in the ARTEP manual.

(3) Status is described in terms of a 5-character date YY.MM and a one character status Z, coded as R (Red), Y (Yellow), or G (Green).

Exhibit 7-13. Training Status for ARTEP Missions -- Battalion and Battery Aggregates (1)

B. CONDITIONS - STATUS VERSION:

MISSION(2)	DATE OF LAST TRAINING AND ESTIMATED CURRENT STATUS(3)				HHB
	BATTALION	BATTERY A	BATTERY B		
X-XX-X	T/W/M Z	T/W/M Z	T/W/M Z	. . . . .	T/W/M Z
X-XX-X	T/W/M Z	T/W/M Z	T/W/M Z	. . . . .	T/W/M Z
X-XX-X	T/W/M Z	T/W/M Z	T/W/M Z	. . . . .	T/W/M Z
X-XX-X	T/W/M Z	T/W/M Z	T/W/M Z	. . . . .	T/W/M Z
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.

Notes:

- (1) Report is intended to show the status of the battalion and all of its subordinate units.
- (2) Mission format is the same as in the ARTEP manual.
- (3) Status is described in terms of a one character status Z (coded as R (Red), Y (Yellow), or G (Green)), and a 5-character condition descriptor T/W/M, where:
  - o T refers to time of day and is coded D for day and N for night;
  - o W refers to weather and is coded C for clear and R for rain; and
  - o M refers to MOPP Level, which can have the status 1, 2, 3, or 4.

Exhibit 7-14. Training Status for ARTEP Tasks -- Battalion and Component Units(1)

Mission:(2) XXXXXXXXXXXX . . . . . XXXXXXXXXXXXX

Tasks of Interest:(3)

X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X
X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X
X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X

A. DATE - STATUS VERSION:

TASK(4)	DATE OF LAST TRAINING AND ESTIMATED CURRENT STATUS(5)			
	BATTALION	BATTERY A	BATTERY B	HHB
X-XX-X-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z
X-XX-X-X	YY.MM Z	YY.MM Z	YY.MM Z	YY.MM Z

.	.	.	.	.
.	.	.	.	.

Notes:

- (1) Report will be prepared for battalion and its component batteries or for a particular battery and its component sections.
- (2) Mission title can be up to 70 characters; tabulation of tasks for first mission is repeated for second and subsequent missions.
- (3) Provision should be made to provide the detail for all ARTEP tasks in this mission if requested; the maximum number of tasks expected is about 50.
- (4) Use ARTEP format for task code.
- (5) See Item 3, Exhibit 7-13A for format description.

Exhibit 7-14. Training Status for ARTEP Tasks -- Battalion and Component Units(1)

Mission: (2) XXXXXXXXXXXX . . . . . XXXXXXXXXXXX

Tasks of interest: (3)

X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X
X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X
X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X	X-XX-X-X

B. CONDITIONS - STATUS VERSION:

TASK(4)	DATE OF LAST TRAINING AND ESTIMATED CURRENT STATUS(5)			
	BATTALION	BATTERY A	BATTERY B	HHB
X-XX-X-X	T/W/M 2	T/W/M 2	T/W/M 2	. . . . . T/W/M
X-XX-X-X	T/W/M 2	T/W/M 2	T/W/M 2	. . . . . T/W/M
X-XX-X-X	T/W/M 2	T/W/M 2	T/W/M 2	. . . . . T/W/M
X-XX-X-X	T/W/M 2	T/W/M 2	T/W/M 2	. . . . . T/W/M

. . . . .  
. . . . .

Notes:

- (1) Report will be prepared for battalion and its component batteries or for a particular battery and its component sections.
- (2) Mission title can be up to 70 characters; tabulation of tasks for first mission is repeated for second and subsequent missions.
- (3) Provision should be made to provide the detail for all ARTEP missions if requested; the maximum number of tasks expected is about 2000. Use ARTEP format for task code.
- (4) Use ARTEP format for task code.
- (5) See Item 3, Exhibit 7-13B for format description.

Team training is concerned with the training of small groups of soldiers who have responsibilities that are importantly shaped by the unit's primary mission, while being generally applicable to a variety of different types of mission. The 1/11 FA Battalion of Ft. Lewis, Washington, has the following special teams (team responsibility being an additional duty):

- o Advance Party.
- o Anti-Tank.
- o Assembly (special weapons).
- o Crater Analysis.
- o Decontamination.
- o Emergency Action (special weapons).
- o Field Sanitation.
- o Graves Registration.
- o Mine Detection.
- o NBC Control Party.
- o Personnel Reliability Program (special weapons).
- o Survey and Monitor.

Team membership varies from 10 to 50 and typically spans the battalion, with sub-teams for the various batteries. Multiple team membership is possible, a battery commander being on as many as five different teams. Exhibit 7-15 defines a preformatted report which portrays the overlapping responsibilities of all the members of special teams belonging to a particular unit.

Team training constitutes a special MOS (which we will designate "TMOS") with tasks taken from various MOS's pertinent to different facets of team responsibilities. Some of these tasks are defined by the team leader after consulting relevant field manuals and discussing team responsibilities with the commanders of the units served by the team. Team tasks are often not extensively documented. The collection of reference data on team training and organization of this information into a data base must take into account the non-uniformity of data available and the somewhat ad hoc nature of this category of training.

#### 7.5.1 Contents of the Team Training Data Base

The data base content for a TMOS is defined by Exhibit 7-16. Note that these data are much less elaborate than the data specified for the MOS data base. Consequently, it is appropriate to consolidate the reference data (basically a list of team members and a list of tasks) with the training records. A comment block 200 characters long does, however, permit the trainer to identify crucial resources needed for training or to document important considerations in teaching a particular task. Finally, like ARTEP training, it is collective performance that is evaluated rather than the contributions of individual team members.

Exhibit 7-17 presents the proposed data entry form for team training. This form has been adapted from the similar form used to update MOS training records (Exhibit 7-28). Thus, the TMOS form is tied to the training schedule with a training event code and the form itself has been designed to be easily used in the field.

#### 7.5.2 Preformatted Summaries of Team Training

Exhibits 7-18 and 7-19 are preformatted summaries of team training status within a particular unit. Exhibit 7-18 gives an overview of the training of all the teams within a particular unit and is, therefore, especially suited for use at the battalion level. Exhibit 7-19 provides a detailed look at the training status of a particular team in much the same manner that Exhibit 7-34 depicts the status of training for a specific MOS. Note, however, that training status for a task is recorded for the team as a unit; no attempt is made to monitor task proficiency of individual team members.

The specification of the training module is completed in Section 7.6, which defines the data base and preformatted reports relevant to MOS training.

Exhibit 7-15. Overlay of Team Membership Upon Regular Duties

UNIT: \_\_\_\_\_ (1)

DATE: \_\_\_\_\_ (2)

(3) Name:	(4) Grade	(5) Duty Position	(6) Team Membership			
			Team 1	Team 2	Team 3	Team 4
XXXXXXXXXX X	XXX	XXXXXXXXXX	X	X	X	X
XXXXXXXXXX X	XXX	XXXXXXXXXX	X		X	.
XXXXXXXXXX X	XXX	XXXXXXXXXX	X	X	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

Notes to Exhibit 7-15.

- (1) Identification of the unit for which this report is prepared; normally it will be the battalion or one of its component batteries.
- (2) Date of this report in standard ATUTMS format: YY.MM.DD.
- (3) Names of team members in standard ATUTMS format: last name, followed by initial letter of first name; names will normally be listed in alphabetical order.
- (4) Grade of each soldier in standard military format; e.g. E1, E2, etc.
- (5) Primary duty position for this soldier, as it appears in the current Unit Manning Report.
- (6) Team membership is indicated by placing an "x" in the appropriate column under the team name; team names will be listed alphabetically, using the following abbreviations:

ADV:	Advance Party
ATK:	Anti-Tank
ASY:	Assembly
CTR:	Crater Analysis
DCN:	Decontamination
EAT:	Emergency Action
GRV:	Graves Registration
MIM:	Mine detection
NBC:	NBC control party
PRP:	Personnel Reliability Program
SAN:	Field Sanitation
S/M:	Survey and Monitor

Exhibit 7-16. Detailed Content of the Data Base for Team Training - Planning and Training Status Data

<u>Field Name<sup>a</sup></u>	<u>Estimated<sup>aa</sup> Characters</u>	<u>Definition/Comments</u>
1. Team Title	30	Team title, possibly abbreviated; because these teams do not have the sort of formal status conformed by a soldier's manual, team titles may vary from unit to unit.
2. Team Membership	20(15A)	List of currently active members of this team in ATUTMS format -- last name followed by initial letter of first name; team leader must be designated by a special character.
3. No. Tasks	3N	Number of formally recognized tasks for which this team must be trained in order to be qualified for their assigned missions.
4. Task Descriptions (for each task)		
a. Task Title	50	Abbreviated title of the task, as used by the unit and/or written in the relevant soldier's manual (if applicable).
b. Task Code	12	Army code name for the task as contained in the relevant soldier's manual (if applicable); the unit may wish to assign its own code to locally defined tasks.
c. Comments	200	Summary of task content, comments on how to teach this task to the team, and/or list of critical resources needed.
d. Date Last Trained	8	Date of last training in standard ATUTMS format: YY.MM.DD.
e. Training Status	1A	Capability to perform each task is assessed in light of team performance, not individual skills; coding is G (GO), or N (NO-GO).

<sup>a</sup> The primary data source for items 1-4 is the principal trainer of the team in question, plus the commander(s) of the unit(s) served by this team.

<sup>aa</sup> Field contents are alphanumeric unless otherwise indicated.

Exhibit 7-17. Data Entry Form for Team Training Records

Training Event Code: (1) \_\_\_\_\_ Date: (2) \_\_\_\_\_

Unit: (3) \_\_\_\_\_ Trainer: (4) \_\_\_\_\_

Special Conditions/Comments: (5) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Instructions to Trainer: Indicate both GO's and NO-GO's. Modify personnel listing to reflect those actually present for training. Modify column headings under Task Identification Code to reflect tasks that were actually trained on the date indicated.

TEAM MEMBERS PRESENT: (6)

XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X
XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X
XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X

<u>Task Title: (7)</u> _____	<u>GO</u> <u>NO-GO: (8)</u> _____	<u>Comments (9)</u> _____
XXX . . . . . XXX	X	XXX . . . . . XXX
XXX . . . . . XXX	X	XXX . . . . . XXX
XXX . . . . . XXX	X	XXX . . . . . XXX
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.

Notes to Exhibit 7-17.

- (1) The training event code is a unique identifier assigned to this set of tasks on the computerized individual training schedule.
- (2) The date the indicated training was performed; use the format, year, month, day.
- (3) Identification of the battery and section to which the trainees belong.
- (4) Last name, first initial, and rank of the trainer.
- (5) Brief summary of special conditions or other factors encountered during training; n. b. this entry is optional.
- (6) Last name and first initial of trainees; this list must be reviewed for accuracy after training is complete.
- (7) Abbreviated task title; no task code is shown inasmuch as the code is already linked to the task title in the computer file describing team training.
- (8) Status of tasks trained in terms of GO/NO-GO; each task is identified in terms of the last four digits of the task code; the list of tasks trained must be reviewed for accuracy after training is complete.
- (9) A space 20-30 characters wide is provided for brief comments to elaborate upon the team's ability to perform the indicated task.

# Exhibit 7-19. Training Status of Special Teams

(1) UNIT: _____		(2) DATE: _____			
(3) Team: _____	(4) Leader: _____	(5) No. Members: _____	(6) No. Tasks _____	(7) GO Tasks _____	(8) % GO Tasks _____
XXX . . . . . XXX	XXXXXXXXXXXX	XXX	XX	XX	XX
XXX . . . . . XXX	XXXXXXXXXXXX	XXX	XX	XX	XX
XXX . . . . . XXX	XXXXXXXXXXXX	XXX	XX	XX	XX
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.

## Notes:

- (1) Identification of the unit for which this summary is prepared; normally it will be the battalion or one of the component batteries.
- (2) Date of this report in standard ATUTMS format: YY.MM.DD.
- (3) Abbreviated team title.
- (4) Last name and first initial of team leader.
- (5) No. of members belonging to the team; a.b. for this report to be valid, the unit named in item 1 must include all the members of all the teams listed under item 3.
- (6) No. of tasks on which the indicated team receives training.
- (7) No. of tasks on which this team is rated as GO or satisfactory.
- (8) GO tasks expressed as a percent of total tasks for this team; 0.1% precision is required.

Exhibit 7-19. Detailed Training Status of \_\_\_\_\_ (name) \_\_\_\_\_ Team (1)

(2) UNIT: \_\_\_\_\_ (3) DATE: \_\_\_\_\_

(4) TEAM LEADER: \_\_\_\_\_ (5) NO. TEAM MEMBERS: \_\_\_\_\_

(6) TASK TITLE	(7) TEAM RATING: GO NO-GO		(8) DATE OF LAST TNG:
	GO	NO-GO	
XXX . . . . .	X		XX.XX.XX
XXX . . . . .	X		XX.XX.XX
XXX . . . . .	X		XX.XX.XX
.	.		.
.	.		.
.	.		.
.	.		.
.	.		.

Notes:

- (1) Team title.
- (2) Identification of the unit for which this report is prepared.
- (3) Date of this report is standard ATUTMS format: YY.MM.DD.
- (4) Last name and first initial of the team leader.
- (5) Total number of team members (including team leader) in the unit identified in item 2.
- (6) Abbreviated title of each task which this team is trained to perform.
- (7) Performance rating on each task as of the date of last training; GO, coded "G" is for satisfactory performance, NO-GO, coded "N", is for unsatisfactory performance.
- (8) Date of last team training in standard ATUTMS format: YY.MM.DD.

The standard Army system for maintaining individual training records consists of entering go-no/go notations in a soldier's job book(s), plus recording on a unit roster, dates and scores pertinent to required training (weapons qualification, NBC training, physical training, etc.). Because of the fashion in which these data are kept, it is often not easy for a training manager to determine if the data in his unit are up to date; moreover, it is very difficult to summarize the individual data into some sort of aggregate picture of how a unit stands on individual training. The current records system has no really effective scheme to provide for a "corporate memory" of how to plan sequences of training activities or forecast required resources. ATUTMS is designed to assist in overcoming all of these problems.

For convenience of exposition, we distinguish three categories of data:

- o Planning data which are useful in deciding on training sequences or forecasting the need for trainers, equipment, ammunition, gasoline, etc.
- o Status data on MOS and common skills tasks (as in a job book).
- o Status data on required training tasks.

Because the status data relate to individual soldiers, it is expected that these data will have links to the personnel data to form an integrated soldier data base.

#### 7.6.1 Planning Data for MOS Training

This module is entered by selecting MOS PLANNING DATA from the main menu for training (see Exhibit 7-2). Upon entering the MOS planning module, one is presented with the menu of options portrayed in Exhibit 7-20. This menu contains three elemental commands plus a generic request for a query (which will permit the user to address any portion of the ATUTMS data base). The first command, titled VIEW TASK OUTLINE FOR MOS \_\_\_\_\_, is intended to provide the user with a rapid overview of the indicated MOS/skill level. The content of this overview is defined in Exhibit 7-21.

Selection of the second command, titled VIEW/ENTER/EDIT PLANNING DATA FOR MOS TASK \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_, would permit a user to view task level information within an MOS/skill level and, subsequently, to enter or edit these data as desired. As indicated in Section 7.7, access to the data entry/edit mode would be restricted to authorized individuals. Exhibit 7-22 defines the contents of the files required to plan training at the task level.

In entering status data, it will be necessary to identify an individual soldier. It is proposed that this be done by specifying last name, first initial, grade, and unit in sequential order.

Exhibit 7-23 is a data form for collecting the detailed planning information. It is suitable for use as a paper form or a video input display. Because the data specified in Exhibit 7-21 may be obtained easily from the table of contents of a soldier's manual, it is assumed that these data may be entered by keying directly into an ATUTMS video input format.

Examination of the data form reveals that the only information readily accessible from the relevant Soldier's manual is task title and task code; the remainder of the information specified may be found in supporting documents furnished by the proponent school, or in some instances, may be simply judgmental estimates. In consequence, assembling these data for even the high density MOSs (e.g., 13B, 13C, 13E, and 13F in the case of 1/11FA) will be a substantial effort that can be expected to extend over some period of time.

The command titled COMPARE PLANNING FOR THE FOLLOWING MOS TASKS ... is intended to facilitate planning for the training of a group of related tasks. Note that the tasks in the list following the command are not restricted to one MOS. The options for this command are the same as those for planning an individual task; the display following command execution is given in Exhibit 7-24. When in this command mode, the user may edit table entries, then obtain a summary of resource requirements as shown in Exhibit 7-25.

Once the planning data have been satisfactorily entered into the system, anyone may view this information, but only the S3 (or his designee) may edit the elemental data.

Exhibit 7-20. Sample Menu for Planning MOS Training

- o VIEW TASK OUTLINE FOR MOS \_\_\_\_\_. (n.b. skill level must be specified, as in 13B01); data file is defined in Exhibit 7-21.
  
- o VIEW/ENTER/EDIT PLANNING DATA FOR MOS TASK \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_; data are defined in Exhibit 7-22; fields 1-3 will appear as header; options are (selection of multiple options is permitted):
  - TRAINING TIMES: fields 4,5,6
  - AMMO: field 7
  - EQUIPMENT AND VEHICLES: field 8
  - RANGES: field 9
  - RELATED SM TASKS: field 10
  - COMMENTS: field 11
  - ALL: fields 1-11
  
- o COMPARE PLANNING DATA FOR THE FOLLOWING MOS TASKS:
  - \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_
  - \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_
  - \_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_
  
- o QUERY; this command transfers control to the data base query facility.

Exhibit 7-21. Detailed Content of the Data Base for MOS Training -- MOS Overview

<u>Field Name*</u>	<u>Estimated** Characters</u>	<u>Definition/Comments</u>
1. MOS code	7	MOS is divided into a 3-character field identifying the occupational specialty, followed by a 2-character field which denotes the skill level.
2. MOS title	50	Abbreviated title for this MOS, as it appears in the relevant Soldier's Manual.
3. No. of tasks in this MOS	3	The number of tasks can vary from 50 to 200.
4. List of tasks in this MOS:	variable: 3,000-12,000	
a. Task Code	12	See Exhibit 7-22 for format.
b. Task Name	50	Abbreviated title, as written in the relevant Soldiers Manual.

\* The source of all the data in this exhibit is the Soldier's Manual for the MOS of interest.

\*\* Field contents are alphanumeric unless otherwise indicated.

Exhibit 7-22. Detailed Content of the Data Base for Individual Training Records -- Planning Date for MOS Tasks

Field Name*	Estimated** Characters	Definition/Comments
1. Military Occupational Specialty, including skill level (MOS)	5	MOS is divided into two subfields -- a 3-character designation of the occupational specialty, and a 2-character description of the skill level within that specialty.
2. Task code	12	Army code name for the task, as contained in the relevant Soldier's Manual; format is SSS-FFF-DTTT, where SSS identifies TRADOC School, FFF is functional area, D is relative difficulty, and TTT is the unique task code.
3. Task title	50	Abbreviated title of the task as written in the relevant Soldier's Manual; only tasks will be recorded -- <u>not</u> subtasks.
4. Time to train initially	5	Time in hours and minutes (to the nearest whole minute) to become proficient, given no previous qualification for this task. Format is HH:MM, where HH and MM are the hours and minutes subfields, respectively.
5. Time to retrain	5	Time in hours and minutes (to the nearest whole minute) to become proficient, given that an individual was previously qualified to perform this task. Same format as "Time to train initially".
6. Decay time	2	Time in weeks (to the nearest whole week) for task proficiency of a previously qualified soldier to degrade to "semi-proficient", given no intervening refresher training or experience in performing this task.

Exhibit 7-22. (cont.)

<u>Field Name*</u>	<u>Estimated** Characters</u>	<u>Definition/Comments</u>
7. Ammo resources	59	Type of ammo and number of rounds required, in the following format: DDDD-NNNN, where DDDD is the DODIC no. for ammo type and NNNN is the number of rounds required; the field length accommodates six ammo types.
8. Vehicle and equipment resources	45	Type of vehicle or equipment and estimated usage in miles and/or hours of operation, in the following format: EEEEE-MMM-HHH, where EEEEE is the MTOE code for equipment type, MMM is the estimated mileage; and HHH indicates estimated usage hours; the field length accommodates three equipment types.
9. Preferred range or maneuver areas required	3 (17,3)***	Identification of the range (maneuver area) needed in order of decreasing preference, together with the hours of range time required, in the following format: RR...RR-HHH, where RR...RR is a 16-character identification of the range and HHH is the range time needed to the nearest whole hour.
10. Related Soldier's Manual Tasks	120	Provision is made for up to ten related Soldier's manual tasks which are commonly trained at the same time. Each task is identified by the standard 12-digit code.
11. Comments	200	A field providing any additional information crucial to the planning or management of this task.
	559	Total Characters

\* The data for fields 1,2, and 3 may be found in the relevant Soldier's manual; data for fields 4-11 one derived from supporting documentation furnished by the proponent school or from judgmental estimates.

\*\* Field contents are alphanumeric unless otherwise indicated.

\*\*\* Notation indicates three repetitions of a 20-character field, divided into a 17-character and a 3-character subfield.

Exhibit 7-23. Data Entry Form for Individual Training Records --  
Planning Data for MOS Tasks

MOS/Skill Level: \_\_\_\_\_ Task Code: \_\_\_\_\_ - \_\_\_\_\_

Task Title: \_\_\_\_\_

\_\_\_\_\_

Initial Training Time: \_\_\_\_\_ hr Time to Retrain: \_\_\_\_\_ hr

Decay Time: \_\_\_\_\_ mo

Ammo Required:

DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_ DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_

DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_ DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_

DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_ DODIC No: \_\_\_\_\_ Rounds: \_\_\_\_\_

Vehicle/Equipment Required:

MTOE Code: \_\_\_\_\_ Usage: \_\_\_\_\_ mi \_\_\_\_\_ hr

MTOE Code: \_\_\_\_\_ Usage: \_\_\_\_\_ mi \_\_\_\_\_ hr

MTOE Code: \_\_\_\_\_ Usage: \_\_\_\_\_ mi \_\_\_\_\_ hr

Preferred Ranges or Maneuver Areas Required, in order of decreasing preference:

1. Range: \_\_\_\_\_ Usage: \_\_\_\_\_ hr

2. Range: \_\_\_\_\_ Usage: \_\_\_\_\_ hr

3. Range: \_\_\_\_\_ Usage: \_\_\_\_\_ hr

Related Soldier's Manual Tasks:

Task Code: \_\_\_\_\_ - \_\_\_\_\_ Task Code: \_\_\_\_\_ - \_\_\_\_\_

Task Code: \_\_\_\_\_ - \_\_\_\_\_ Task Code: \_\_\_\_\_ - \_\_\_\_\_

Task Code: \_\_\_\_\_ - \_\_\_\_\_ Task Code: \_\_\_\_\_ - \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Exhibit 7-24. Comparison of Planning Data for MOS Tasks

[illegible]

**Notes:**

- (1) Task code and title are defined in the relevant soldier's manual; the title must be severely abbreviated.
- (2) Initial, retraining, and decay times, respectively.
- (3) Ammo resources are described in terms of DODIC no., type, and no. of rounds.
- (4) Equipment is described in terms of number required, MTOG designation, abbreviated description, and gallons of fuel consumed.
- (5) Ranges are listed in order of preference, together with hours needed; range name must be abbreviated.
- (6) Information relevant to detailed specifications for this display may be found in Exhibit 7-22.

Exhibit 7-25. Summary of Resources Needed for Training Event \_\_\_\_\_ (1)

HCS TASKS (2): XXX-XXX-XXXX XXX-XXX-XXXX XXX-XXX-XXXX  
 XXX-XXX-XXXX XXX-XXX-XXXX XXX-XXX-XXXX

AMMO (3)		EQUIPMENT (4)		USAGE (5)			RANGES (6)	
DODIC	TYPE	BNDS	NO.	DESCRIPTION	GAS	HR	MI	NAME
XXXX	XXXXX	XXXX	XX	XXX . . . . XXX	XXX	XX	XX	XXX . . . . XXX
XXXX	XXXXX	XXXX	XX	XXX . . . . XXX	XXX	XX	XX	XXX . . . . XXX
XXXX	XXXXX	XXXX	XX	XXX . . . . XXX	XXX	XX	XX	XXX . . . . XXX
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.

Notes:

- (1) The blank following TRAINING EVENT in the title of Exhibit 7-25 will be assigned a code by the user at the time this training is entered into the unit's training schedule.
- (2) Identification by task code of a group of MOS tasks to be trained together.
- (3) Aggregate ammunition resources required for this group of tasks, in terms of DODIC no., type, and no. of rounds.
- (4) Aggregate equipment requirements, in terms of no. of items and a brief description of each one.
- (5) Aggregate equipment usage for each type, in terms of gallons of fuel, hours of usage, and miles driven.
- (6) Ranges, in order of descending preference, identified by name and hours required to train this group of tasks.
- (7) Information relevant to detailed specifications for this display may be found in Exhibit 7-22.

#### 7.6.2 Status Data for MOS Training

In order to describe the content and manipulation of the status data for MOS training it is necessary to embed the system in a training scenario. We shall assume that the process of planning, executing, and evaluating a set of individual training tasks will proceed as follows:

- 1) Select a set of tasks to be trained by a particular unit or sub-unit, and assign a code word identifier.
- 2) Arrange for the necessary resources and enter this event on the unit's training schedules.
- 3) On the day training is to occur, the trainer obtains from ATUTMS a hard copy of the tasks to be trained and the trainees. (n.b. the list of trainees could, in theory, be updated from the daily personnel status report.)
- 4) The trainer edits the data form to reflect the individuals actually present and the tasks which were trained.
- 5) Individual proficiency is indicated by recording NO/GO for those who did not come up to standard for a particular task; presumably this will be less onerous than recording GOs.
- 6) After returning to his office, the trainer enters the data himself or gives it to a clerk for entry.
- 7) Data entry proceeds by calling up the data collection form on the monitor display (using the previously assigned training event code) and editing it to correspond to the hard copy version brought back from the field.
- 8) When the data recorder is satisfied that data entry is complete, he instructs the system to transfer these data to the training portion of individual soldier records.

The menu for handling MOS training status is importantly shaped by this scenario. After entering the MOS training status mode by selecting the command MOS TRAINING RECORDS (see Exhibit 7-2), the user is presented with the menu of Exhibit 7-26.

Exhibit 7-26. Suggested Menu for MOS Training Status

- o ENTER/EDIT TRAINING STATUS FOR SOLDIER (name),  
MOS \_\_\_\_\_.
- o ENTER/EDIT STATUS FOR TRAINING EVENT (code); given a training event code, this command permits data entry or training status update for a number of soldiers who received MOS training simultaneously.
- o VIEW TRAINING SCHEDULES; permits user to view training schedules with an option to return to the training status module.
- o QUERY; this command transfers content to the data base query facility.

The first command, ENTER/EDIT STATUS FOR SOLDIER (name) MOS \_\_\_\_\_ permits entering or updating training records for an individual soldier, given his name and MOS/skill level. Last name and first initial will suffice to identify a soldier in most cases; however, the system design will be able to cope with situations where several soldiers have the same last name and first initial. Exhibit 7-27 specifies how ATUTMS records the MOS training status for an individual soldier.

As indicated in the prototypical training scenario described above, it is presumed that frequently a group of soldiers will train together on a set of related MOS tasks. The next two commands of Exhibit 7-26 are oriented toward such a scenario. The first command, ENTER/EDIT STATUS FOR TRAINING EVENT (code), permits a user to enter data recorded in the field on a training record form, as described in Exhibit 7-28 (or ultimately on a hand-held computer).

The training event code (item 1, Exhibit 7-28) is the identifier assigned to this set of tasks at the time they were planned and scheduled by the trainer. This code is also linked (by unit identification) to the individuals who are slated to train on this set of tasks.

In the course of recording these data, or updating data on individual soldiers, we can envision many situations in which a user would like to refer quickly to a training schedule. The third menu item, VIEW TRAINING SCHEDULES, permits the user to do this directly and then return to his updating chores without going through the main training menu.

The final menu item, QUERY, is added for completeness to facilitate rapid entry into the data base query mode.

Exhibit 7-27. Detailed Content of the Data Base for Individual Training Records -- Individual Training Status

Field Name <sup>a</sup>	Estimated <sup>aa</sup> Characters	Definition/Comments
<u>Header Information:</u>		
1. Soldier Identification	15	For data entry, a soldier will be identified by last name, first initial, and grade; in the event that this identification is not unique, the computer will note this problem and present to the user additional information from personnel records to help identify the man uniquely.
2. Military Occupational Specialty, including skill level (MOS)	7	See item 1, Exhibit 7-21 for definition.
3. Aggregate Training Status for this MOS	3N	Percent of MOS training tasks for which the status is GO; round to nearest whole percent.
<u>Repeated for Each Task:</u>		
4. Task code	12	Army code name for this task, as defined in item 2, Exhibit 7-22.
5. Date last trained <sup>aaa</sup>	8	Format is YY.MM.DD, where YY is last two digits of year, MM is month, and DD is day.
6. Trainer's Identification	15	Same format as for "Soldier identification".
7. Soldier's status on this task	1A	Capability to perform the task is coded as follows: G -- GO, or satisfactory; N -- NO GO, or unsatisfactory.
8. Comments	100	Notable conditions under which training was performed, other qualifiers, and observations.
Total Characters		159

Notes to Exhibit 7-27.

\* Field 1 will, in practice, be a pointer to training data for an individual soldier. Fields 2 and 4 are defined in the relevant soldier's manual; fields 5-8 are recorded by the trainer at the time training occurs; field 3 is updated following any recorded change in status of an MOS task (item 7); Exhibit 7-28 contains a form designed to capture status data for a group of soldiers undergoing simultaneous training for a set of related tasks.

\*\* Field contents are alphanumeric unless otherwise indicated.

\*\*\* This 8-character format for date is used universally throughout the ATUTMS requirements.

Exhibit 7-28. Data Entry Form for Individual Training Records -- MOS Training Status

Training Event Code: (1) \_\_\_\_\_ Date: (2) \_\_\_\_\_

Unit: (3) \_\_\_\_\_ Trainer: (4) \_\_\_\_\_

Special Conditions/Comments: (5) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Instructions to Trainer: Indicate NO-GO's only. Modify personnel listing to reflect those actually present for training. Modify column headings under Task Identification Code to reflect tasks that were actually trained on the date indicated.

TASKS TRAINED: (6)

1. XXX-XXX-XXX XXXX . . . . . XXX
2. XXX-XXX-XXX XXXX . . . . . XXX
3. XXX-XXX-XXX XXXX . . . . . XXX

GO/NO-GO Status of Tasks Trained (9)

<u>Name: (7)</u> _____	<u>Grade: (8)</u>	<u>XXX</u>	<u>XXX</u>	<u>XXX</u>	<u>XXX</u>	<u>XXX</u>	_____
XXXXXXXXX X	X-X						
XXXXXXXXX X	X-X						
XXXXXXXXX X	X-X						
XXXXXXXXX X	X-X						
.	.						
.	.						
.	.						
.	.						

Notes to Exhibit 7-28.

- (1) The training event code is a unique identifier assigned to this set of tasks on the computerized individual training schedule.
- (2) The data the indicated training was performed; use the format, year, month, day.
- (3) Identification of the battery and section to which the trainees belong.
- (4) Last name, first initial, and rank of the trainer.
- (5) Brief summary of special conditions or other factors encountered during training; n. b. this entry is optional.
- (6) To assist the trainer in recording GO/NO-GO status under the correct task code, a list of task codes and corresponding task titles is supplied; tasks are listed in order of training priority.
- (7) Last name and first initial of trainees; this list must be reviewed for accuracy after training is complete.
- (8) Grade of each trainee is standard military format, e.g., E1, E2, etc.
- (9) Status of tasks trained in terms of GO/NO-GO; each task is identified in terms of the last four digits of the task code; the list of tasks trained must be reviewed for accuracy after training is complete.

### 7.6.3 Status Data for Required Individual Training

In addition to MOS training, it is very useful to monitor the status of required training: weapons qualification, physical training, NBC training, etc. Exhibit 7-29 defines the content of the data base on required training for the 1/11 FA. It is felt that the data base content is applicable to most maneuver units except for such items as "artillery safety training," "emergency action training," and "personnel reliability program." Because this information will be handled in a manner identical to personnel data for individual soldiers (which will typically be output in the query mode), no preformatted summary reports have been specified.

Note that Exhibit 7-29 contains a column titled, "Retraining Interval," that is used in a preformatted report which determines the number of soldiers deficient in mandatory training as of a date specified by the user (see Exhibit 7-35).

Entry into the required training module is accomplished by selecting REQUIRED TRAINING RECORDS from the list of options in the main training menu (Exhibit 7-2). The sub-menu for required training is identical to the one for MOS training (Exhibit 7-26), and thus, it is not repeated here.

# Exhibit 7-29. Data Base Content for Mandatory Individual Training Tasks

Field Name*	Retraining*** Interval	Estimated** Characters	Definition/Comments
1. Soldier name	12 mo	15	Last name, followed by first initial.
2. Individual Weapons Qualification	6 mo	63	Provision is made for three weapons; each entry consists of the weapon identification, using the MTOE line and paragraph no. (8 characters); date of last qualification fire (8 characters); score (4 characters); and Army classification -- marksman (M), sharpshooter (S), or expert (E) -- one character.
3. Physical Training	6 mo	20	The PT record consists of three entries: date (8 characters); aggregate score adjusted for age (3 characters); and three component scores: sit-ups (3 characters), push-ups (3 characters), and run (3 characters).
4. Nuclear, Biological, Chemical (NBC) Training	6 mo	21	The NBC record consists of thirteen entries: date (8 characters); GO/NO-GO overall (one character); GO/NO-GO, mask (one character); aggregate GO/NO-GO for individual proficiency (one character); and GO/NO-GO scores for the 10 tasks which comprise individual proficiency (10 characters).
5. Artillery Safety*** Training	6 mo	23-28	Artillery safety training has a format similar to the NBC record: date (9 characters); GO/NO-GO overall (one character); written score (3 characters); aggregate hands-on score in terms of GO/NO-GO; and GO/NO-GO scores for the 10-15 tasks which comprise the hands-on training (10-15 characters).
6. Special Weapons Qualifications	weekly	9	This record applies to assemblers of the round only; it consists of following entries: team membership (one character), date of last training (8 characters), and status coded as GO/NO-GO (one character).
7. Military Justice, Course B	6 mo	11	Two entries are required: date (8 characters) and score (3 characters).

Exhibit 7-29. (cont.)

Field Name*	Estimated** Characters	Definition/Comments																											
8. Equipment Operator's variable Qualification	60-429	An individual may have as many as 10 licenses. A separate record must be kept for each license, as follows:																											
1		o Current Equipment Operator's Qualification Record (DA 348) is on file (one character).																											
8		o Date of Motor Vehicle Accident Prevention Class (MVAPC) (8 characters).																											
8		o Date of safety class and coordination task (8 characters).																											
2		o Number of licenses or types of equipment for which the individual is qualified (2 characters).																											
n(41)		o The information on each license includes the following items: <ul style="list-style-type: none"> <li>- type of equipment (8 characters) see list of codes below: <table> <tr> <td>1/4T</td><td>1.5KW</td><td>GEN</td></tr> <tr> <td>5/4T</td><td>3KW</td><td>GEN</td></tr> <tr> <td>M880</td><td>5KW</td><td>GEN</td></tr> <tr> <td>1-1/2T</td><td>15KW</td><td>GEN</td></tr> <tr> <td>2-1/2T</td><td>BURNER</td><td></td></tr> <tr> <td>5T</td><td>BUS</td><td></td></tr> <tr> <td>FAV</td><td>SEDAN</td><td></td></tr> <tr> <td>HUMMV</td><td>VAN</td><td></td></tr> <tr> <td></td><td>Other</td><td>(8 characters allowed)</td></tr> </table> </li> <li>- date license issued (8 characters).</li> <li>- date license suspended or revoked (8 characters, plus one for status).</li> <li>- date of maintenance certification (8 characters).</li> <li>- date road test was taken last (8 characters).</li> </ul>	1/4T	1.5KW	GEN	5/4T	3KW	GEN	M880	5KW	GEN	1-1/2T	15KW	GEN	2-1/2T	BURNER		5T	BUS		FAV	SEDAN		HUMMV	VAN			Other	(8 characters allowed)
1/4T	1.5KW	GEN																											
5/4T	3KW	GEN																											
M880	5KW	GEN																											
1-1/2T	15KW	GEN																											
2-1/2T	BURNER																												
5T	BUS																												
FAV	SEDAN																												
HUMMV	VAN																												
	Other	(8 characters allowed)																											

Exhibit 7-29. (cont.)

Field Name*	Retraining Interval	Estimated** Characters	Definition/Comments
9. Personnel Reliability Program/Emergency Action Team Status		(93 total)	This record consists of the following 9 subrecords:
			o Responsibility: "Control", "Critical" (decodes orders), or both (one character).
			o Team membership, ...A or B or none (trained but not a team member).
		48	o Processing of DA Form 3180, noting the following dates (8 characters each): <ul style="list-style-type: none"> <li>- Form preparation,</li> <li>- Adjutant General Processing,</li> <li>- Medical processing,</li> <li>- Verification of clearance,</li> <li>- Interim Top Secret requested,</li> <li>- Interim Top Secret granted.</li> </ul>
		8	o Date of initial briefing
		9	o Initial training of those with "Critical" role: date (8 characters) and GO/NO-GO (1 character)
		9	o Intermediate training of those with "Critical" role: date (8 characters) and GO/NO-GO (1 character)
	3 mo	8	o Quarterly refresher training of those with "Critical" role: date of most recent training.
	6 mo	9	o Semi-annual retest of those with "Critical" role: date (8 characters) and GO/NO-GO (1 character).

Notes to Exhibit 7-29.

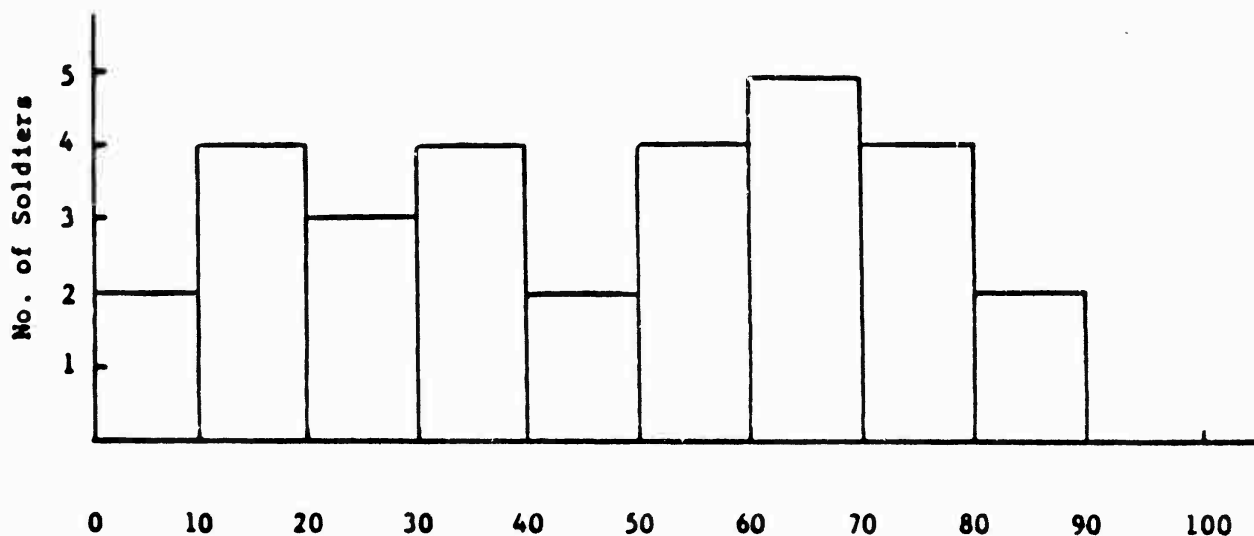
- \* Soldier name (item 1) is a pointer to the main data record for this individual; Items 2-9 may be obtained from paper records presently kept by the battalion S4.
- \*\* Field contents are alphanumeric unless otherwise indicated.
- \*\*\* The length of the field for the artillery safety test is uncertain because the number and content of the tasks which make up the hands-on training are currently being reviewed.
- \*\*\*\* The retraining interval is used in the summary of mandatory training status (Exhibit 7-35) to flag deficient individuals as of the indicated date of that report.

#### 7.6.4 Preformatted Summaries of Individual Training Status

Entry into the module containing preformatted reports of individual training is obtained by selecting either MOS TRAINING RECORDS or REQUIRED TRAINING RECORDS from the main training menu (see Exhibit 7-2). Exhibits 7-33 and 7-34 are preformatted reports depicting the overall status of MOS training; the status of mandatory skills training is summarized in a single report, described in Exhibit 7-35. Because the report options available to the user are well defined, no menu has been specified for this module.

7.6.4.1 MOS Training Summaries. Note that four different bases of measurement are available in the reports depicting the status of MOS training: required, authorized, assigned, and deployable personnel. Understanding the measures employed in Exhibits 7-33 and 7-34 requires a brief digression into statistics. Assume that the user has selected "assigned" personnel as the basis for the duty position report. Consider a particular line, e.g., BATTERY B, CANNONEER (MOS 13B01). Suppose that the unit has 30 assigned personnel (the same as the number authorized), and that a tabulation of the percent "GO" tasks for each of these men would produce the plot depicted in Exhibit 7-30:

Exhibit 7-30. Histogram of Percent GO Tasks



Illustrative Percent "GO" Tasks for Cannoneer, Battery B.

The plot of Exhibit 7-30 portrays the usual training situation: it has two clusters of soldiers — one cluster with percent GO scores less than 50, and one with scores over 50. Summarizing these scores produces a plot which shows how many soldiers have scores greater than or equal to a given value (a complementary cumulative distribution). This plot is depicted in Exhibit 7-31. To obtain a quick feeling for the bimodality of the percent GO distribution of scores, one may examine three points on the complementary cumulative distribution: 50%, 70%, and 90%. Moreover, to put all MOS's on an equal footing, one may express the 50, 75 and 100% points in terms of the fraction of soldiers with scores at or above the indicated value rather than the number of soldiers. Examination of Exhibit 7-31 reveals that 15 soldiers (0.50) have scores at or above 50% GO (which implies that 15 have scores below 50%), 6 soldiers (0.20) have scores at or above 70% and no soldiers (0.00) have scores at or above 90%. A plot of these three points permits one to obtain an approximate picture of the overall distribution and its divergence from a more desirable training situation (see Exhibit 7-32).

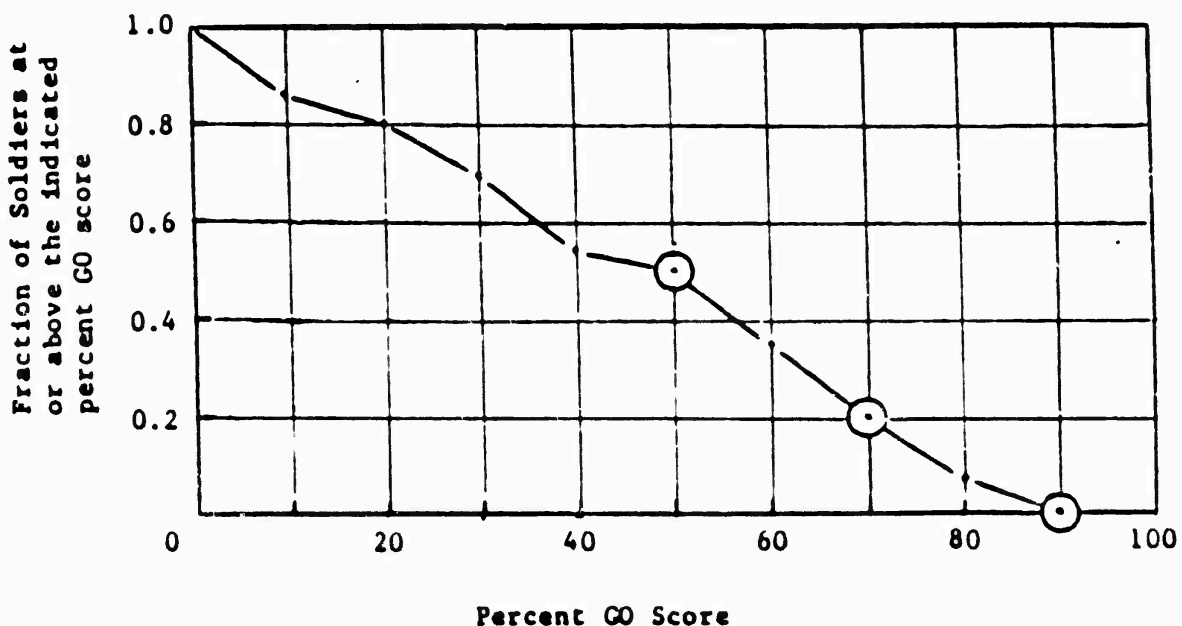


Exhibit 7-31. Illustrative Complementary Cumulative Distribution of Percent GO Scores for MOS 13B (Cannoneer) in Battery B.

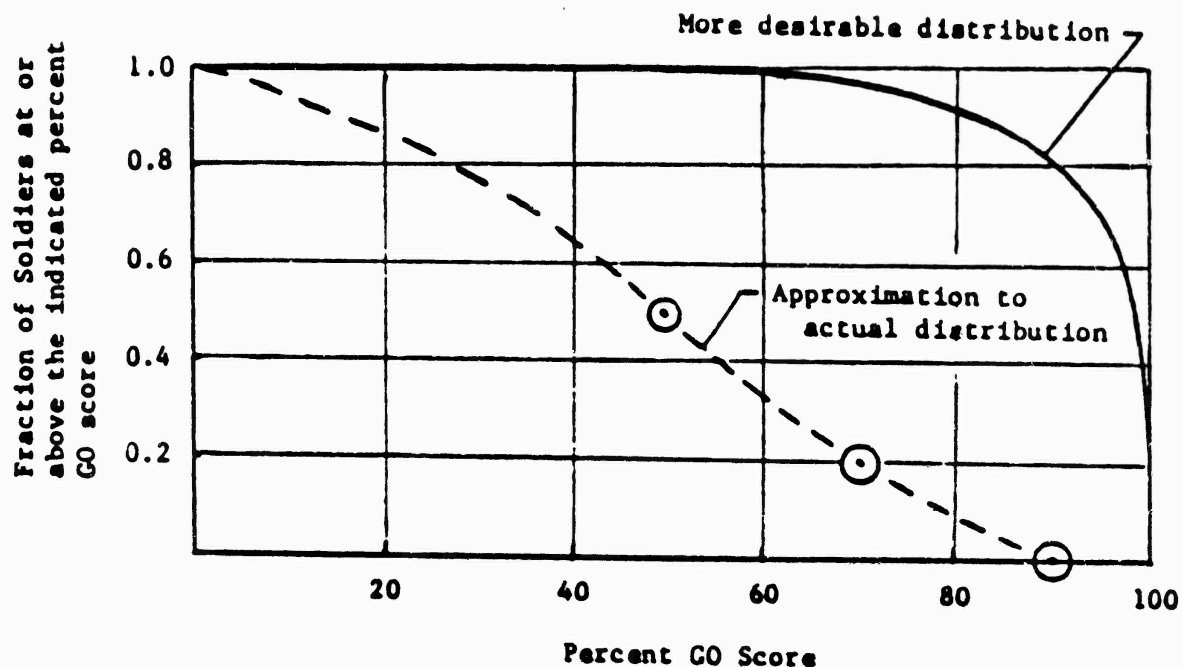


Exhibit 7-32. Approximation to Actual Distribution for the Illustrative Battery and Comparison with a Curve Representing a More Desirable Distribution of Scores.

Exhibit 7-33 summarizes the individual training data by MOS, without regard for the MOS skills of duty position incumbents. It is intended that this MOS summary be available for selected MOS's (e.g., high density specialties), and that the data be summarized at both the battalion and battery levels. As in all of the preformatted summaries of individual training status, the user may specify the number required, authorized, assigned, or deployable as the basis of evaluation. Note the use of the 3-point approximation to the distribution of percent GO on MOS task completion.

Exhibit 7-34 provides detailed data on the status of training for an individual MOS by tabulating the number GO and the percent in GO status for each one of the MOS tasks. The date of last training is also tabulated as an indicator of recent training activity. As in the two previous reports, the user may specify the unit of interest and select as the basis of evaluation the number required, authorized, assigned, or deployable.

7.6.4.2 Summary of Mandatory Training Status. Exhibit 7-35 provides a battalion summary and a breakdown by battery of both current and imminent deficiencies in mandatory training (as specified in Exhibit 7-29). An imminent deficiency is one which will occur if refresher training is not completed by the "as of date" specified in this report. Additional detail on units or individuals which figure in this report may, of course, be obtained by using the data base query capability resident in ATUTMS.

Exhibit 7-33. Unit Training Status, by MOS, for Assigned Personnel(1)

MOS (2)	MO. PERSONNEL (3)				PERCENT DISTRIBUTION OF GO TRAINING STATUS (4)									
	REQ	AUTH	ASSC	DEPL	BATTALION			BATTERY A			HQ & HQ BAT			
					50%	70%	90%	50%	70%	90%	50%	70%	90%	
XXXXXX	XXX	XXX	XXX	XXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
XXXXXX	XXX	XXX	XXX	XXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
XXXXXX	XXX	XXX	XXX	XXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
XXXXXX	XXX	XXX	XXX	XXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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Notes:

- (1) This report will be available for both battalion and battery aggregates for a previously designated list of MOSs.
- (2) Military Occupational Specialty, including a four-digit suffix for skill level. The MOSs to be tracked are specified in the unit's HTOE (see Appendix E).
- (3) Number of personnel required, authorized, assigned, and deployable for this unit; see glossary for definition of these strength categories.
- (4) Percent distribution of the assigned (required, authorized, deployable) personnel in GO training status. The entry in each column indicates the percent of soldiers in this MOS who have percent GO scores equal to or greater than the value at the top of the column -- 50%, 70%, or 90%. (see the discussion in section 7.6.4.1.)

Exhibit 7-34. Training Status of Unit, by MOS Component Task, for Assigned Personnel (1)

UNIT: XXXXXXXXX(2)		MOS: XXXXX(3)	DATE: XX/XX/XX(4)			
PERSONNEL: (5)		AUTHORIZED: XXX		ASSIGNED: XXX	DEPLOYABLE: XXX	
REQUIRED: XXX						
TASK CODE(6)	TITLE(7)	NO. PERSONNEL(8)		PERCENT DISTRIBUTION(9)		DATE OF LAST TMG(10)
		GO	NO GO	GO	NO GO	
XXX-XXX-XXXX	XXXXX.....XXXXX	XXX	XXX	XX	XX	XX.XX.XX
XXX-XXX-XXXX	XXXXX.....XXXXX	XXX	XXX	XX	XX	XX.XX.XX
XXX-XXX-XXXX	XXXXX.....XXXXX	XXX	XXX	XX	XX	XX.XX.XX
XXX-XXX-XXXX	XXXXX.....XXXXX	XXX	XXX	XX	XX	XX.XX.XX
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

Notes to Exhibit 7-34.

- (1) This report will be available for both battalion and battery aggregates.
- (2) Unit Identification will be "Battalion", "Battery A", "Battery B", etc.
- (3) Military Occupational Specialty, including skill level.
- (4) Date format is YY.MM.DD.
- (5) Personnel strength; see glossary for definitions.
- (6) Component tasks are identified by an 11-digit code used in the relevant Soldier's Manual.
- (7) Abbreviated title for this task; the system designer should allow for at least 20 characters on two lines.
- (8) Number of personnel in each training status category, see Exhibit 7-27 for the criteria used to determine training status.
- (9) Training status for component tasks, expressed in terms of percent of assigned (authorized or deployable) personnel; n.b. the basis for percentage calculations may be selected at the time this report is requested.
- (10) Date of last training in the format of YY.MM.DD denotes the most recent training date recorded for any individual in this MOS, for the task code indicated.

Exhibit 7-35. Identification of Units Needing Training in Mandatory Skills, as of \_\_\_\_\_ (1)

Note: Individuals counted in this report are currently deficient or will soon be deficient in the skills listed if refresher training is not completed by the date indicated in the exhibit title.

ITEM	NO. OF SOLDIERS NEEDING MANDATORY SKILLS TRAINING (9)					
	BATTALION TOTAL	BTRY A	BTRY B	BTRY C	SVC	HMB
WEAPONS QUALIFICATION (2)						
o M-16	XXX	XXX .	.	.	.	. XXX
o XXXA	XXX	XXX .	.	.	.	. XXX
o XXXX	XXX	XXX .	.	.	.	. XXX
PHYSICAL TRAINING(3)						
	XXX	XXX .	.	.	.	. XXX
NBC TRAINING(4)						
	XXX	XXX .	.	.	.	. XXX
ARTY SAFETY TRAINING(5)						
	XXX	XXX .	.	.	.	. XXX
SPECIAL WEAPONS(6) (ASSEMBLERS)						
	XXX	XXX .	.	.	.	. XXX
EMERGENCY ACTION,(7) PERSONNEL RELIABILITY PGM						
o INITIAL TRAINING	XXX	XXX .	.	.	.	. XXX
o REFRESHER TRAINING	XXX	XXX .	.	.	.	. XXX
o SEMI-ANNUAL RETEST	XXX	XXX .	.	.	.	. XXX
MILITARY JUSTICE, (8) COURSE B						
	XXX	XXX .	.	.	.	. XXX

Notes to Exhibit 7-35.

- (1) Target date specified by the individual requesting this report; format is YY.MM.DD.
- (2) Individual weapon qualification; provision is made for up to three weapons (see item 2, Exhibit 7-29).
- (3) Physical training (item 3, Exhibit 7-29).
- (4) Nuclear, biological, chemical training (item 4, Exhibit 7-29).
- (5) Artillery safety training (item 5, Exhibit 7-29).
- (6) Special weapons qualification training for assemblers (item 6, Exhibit 7-29).
- (7) Emergency Action/PRP training (see item 9, Exhibit 7-29); only key events are shown.
- (8) Completion of Course B in Military Justice (item 7, Exhibit 7-29).
- (9) Aggregation, for the unit indicated, of soldiers who will need mandatory skills training as of the target date specified in the exhibit title. The retraining interval, required to generate these totals are specified in the column titled "Retraining Interval", Exhibit 7-29.

Exhibit 7-36 presents proposed restrictions on viewing and updating functions for the ATUTMS data base. In general, commanders, staff officers, and training managers are permitted to view all information relevant to the unit or function for which they are responsible. Updating, however, is restricted to the officer(s) responsible for managing and/or evaluating the training function. Because many people will be involved in putting up the initial data base, these restrictions may have to be relaxed during initialization of the data base.

This completes the training portion of the specifications for ATUTMS Phase I. The specification of user requirements is completed with a description of the automated version of the Unit Status Report (USR), an application which closely parallels the slides currently used to brief higher echelons.

Exhibit 7-36. Security Restrictions for the Training Data Base\*

<u>User</u>	<u>View</u>	<u>Update Capability</u>
Battalion Commander	All	ARTEP mission status only
Executive Officer	_____	Mandatory training and equipment operator records
S1		Items relating to security clearance and PRP matters.
S2		All except MTOE
S3		Resources required in training exercises.
S4	All	Data on own battery except MTOE and all planning data
Battery Commander	Data on own battery	

\* Notes:

- (1) No ATUTMS user is authorized to update the MTOE once it is loaded onto the system; an old MTOE can, however, be replaced in toto by a revised version issued by FORSCOM.
- (2) Any officer may choose to delegate his update capability to selected individuals for specific tasks or specified periods of time.

## SECTION 8

### UNIT STATUS REPORTING

Assisting in the determination of unit status, particularly as it impacts combat readiness and deployability, is one of the principal objectives of the ATUTMS project. Sections 5, 6, and 7 have addressed unit status from the perspective of a manager who has a keen interest in a particular asset. This section adopts a rather different perspective, the viewpoint of the unit commander, who requires a view of status that is at the same time stripped to the essentials and very broad in scope. Two existing reports currently serve this function: 1) Form DA 2715 called Unit Status Report, which is sent through channels monthly to the Department of the Army; and 2) a set of slides bearing the same title which is briefed to the next higher echelon of command each month. The ATUTMS project has chosen to use the slides rather than DA Form 2715 for a number of reasons. First, the briefing slides contain virtually all of the information in DA 2715, plus a lot of very useful supporting detail. Second, preparation of the slides, a rather onerous task, is a necessary precursor to filling out DA 2715, a rather simple form. Assistance in assembling the slide material makes the entire unit status reporting process go more easily and quickly. Third, the content of DA 2715 is confidential and thus inappropriate for ATUTMS which is not a TEMPEST secure system; whereas, only a very restricted set of material on the briefing slides is confidential, greatly simplifying the job of computerization. Fourth, the briefing slides appear to address unit status at the right level of detail and with the breadth of view required by a unit manager. So these slides are a logical point of departure in any attempt to automate the preparation of unit status information.

An assessment of unit status often requires access to the unit's Modified Table of Organization and Equipment (MTOE). Although the MTOE is also very important to personnel and logistics, it is most appropriate to discuss it in conjunction with information needs which cut across all areas of unit operation. Accordingly, Sections 8.1 through 8.3 deal with the unit status report per se, while Section 8.4 explains how the MTOE will be integrated into ATUTMS.

#### 8.1 OBJECTIVES AND SCOPE OF THE UNIT STATUS REPORT SLIDES

As indicated above, a set of briefing slides portraying unit status is prepared at each echelon of command, beginning with the battery (company). Accordingly, ATUTMS must respond to the reporting needs of both the battery and the battalion. In light of the several sets of people involved in preparing and utilizing this information, it is apparent that the Unit Status Report Slides (USR, hereafter) address several distinct objectives, including the following:

- o Inform higher commands about unit readiness, with particular attention to the scheduling of higher echelon training exercises and the reallocation of men and materiel.

- o Identify needs for additional training, manpower, and equipment at both the battalion and battery levels.
- o Assess the performance of subordinate commanders and other unit managers.

To accomplish these ends, the commander of the 9th Infantry Division, together with the commanders of the component brigades and organic units (e.g., Division Artillery, of which 1/11 FA is an element) have required that each month the battalion report status in terms of the following topics:

Battalion Slides:

- 1) OVERALL STATUS
- 2) PERSONNEL STATUS
- 3) CRITICAL SPECIALITY/MOS
- 4) NOT AVAILABLE
- 5) SD DIVERSIONS
- 6) LOGISTICS
- 7) PLL STATUS
- 8) MISSION ESSENTIAL EQUIPMENT
- 9) PLL TAMMS CERTIFICATION
- 10) TRAINING
- 11) TRAINING STATUS
- 12) NUCLEAR TRAINING
- 13) BRIGADE FIRE SUPPORT
- 14) BATTALION FIRE SUPPORT
- 15) TACFIRE PERSONNEL STATUS (DS BN) 1/11 FA FIRE DIRECTION SECTION
- 16) TACFIRE PERSONNEL STATUS (DS BN) 1/11 FA OPERATIONS/INTEL SECTION
- 17) 1ST BRIGADE FIRE SUPPORT
- 18) UNIT COMBAT CAPABILITY

And the commander of the 1/11 FA has in turn required that the five batteries within the battalion address these topics:

Battery Slides:

- 1) PERSONNEL:
- 2) CRITICAL MOS
- 3) NOT AVAILABLE
- 4) SD-DIVERSIONS
- 5) PLL STATUS
- 6) TRAINING
- 7) PLL/TAMMS CERTIFICATION
- 8) UNIT COMBAT CAPABILITY

Note that the battery slides are structured to be directly relevant to those battalion slides which require aggregation of numerical data across the unit. No battery level data are reported on form DA 2715.

Section 8.2 addresses general considerations in computerizing the USR slides and, Section 8.3, the detailed contents of each slide.

Examination of detailed slide contents reveals that computerization of the slides is a straightforward task. In most cases the data required by a slide are either a simple aggregation of information within the data base (e.g., percent fill of various categories of personnel) or results of a routine query (e.g., a list of individuals assigned to special duty). Yet there are some higher order considerations which will impact how ATUTMS implements the USR. These considerations revolve about conformance to Army regulations, frequency of reporting, accommodation to changes, and security of information.

In most cases the USR slides present data which are relevant (and often directly transferable) to Form DA 2715. Thus, it is important that the information used on the briefing slides be prepared in accord with Army Regulation 220-1, which governs unit status reporting. A summary of the relevant portion of AR 220-1 may be found in Appendix C.

Frequency of reporting varies with the slide. Currently all of the USR slides are prepared monthly, typically on the 15th or shortly thereafter. However, conversations with the personnel of 1/11 FA reveal that some of this information would be very useful to have on a weekly, or even a daily basis. Exhibit 8-1 formalizes the requirement on frequency of reporting. Note that the battalion and batteries have virtually identical requirements.

Exhibit 8-1. Requirements on Frequency of Reporting for Unit Status Report Slides

<u>Slide Title</u>	<u>Frequency</u>	
	<u>Battalion</u>	<u>Battery</u>
Personnel Status	weekly	weekly
Not Available	weekly	weekly
SD-Diversions	weekly	weekly
Logistics	daily	N/A*
PLL Status	daily	daily
Training Status	monthly	weekly
Brigade Fire Support	weekly	N/A
Battalion Fire Support	weekly	N/A
All other slides	monthly	monthly

---

\* At the battery level, a combined overview of materiel readiness and PLL status is reported on the PLL STATUS slide.

An examination of USR slides used over the last two years indicates that slides have been added, deleted, and modified frequently. Moreover, as the unit gains experience with ATUTMS, one suspects that there will be requests for additional tables and brief summaries bearing on different aspects of unit status. Accordingly, it is mandatory that the USR module of ATUTMS support a capability to edit existing slides and create totally new slides easily and quickly. It appears that the editing facility resident in the ATUTMS data base manager will satisfy this requirement quite well. In addition, it is highly desirable, but not mandatory that ATUTMS support the capability to go quickly from hard copy of slides to the transparencies which are typically used to brief higher echelons.

The security of the USR slides poses a particularly challenging problem for system design because the slides constitute a sensitive body of information. Three of the slides (OVERALL STATUS, PERSONNEL STATUS, and UNIT COMBAT CAPABILITY) are classified as CONFIDENTIAL. Protecting this information from unauthorized access can be reduced to two topics: content of the data base and access to the USR information.

Data base content will be safeguarded in a very simple fashion: First, any slide having a classification of CONFIDENTIAL or a higher level of security will not be computerized. Second, no display of summary data, whether it be designed for use as a slide or not, will bear a unique unit identification. For example, it is all right to associate summary information with "Battery A" but not permissible to label the information as "Battery A, 1/11 Bn FA."

Access to the USR data will be controlled in the following fashion. First, access to the ATUTMS USR application will be controlled by password which will be changed periodically. Second, access to the ATUTMS USR application will be possible only from a restricted set of workstations, namely, the workstations commonly used by the Battalion Commander and the Intelligence Staff Officer. Third, the system will be designed to accommodate the USR data on removable storage media (such as a floppy disc) which can be easily separated from the system and placed in a safe. This feature will permit the creation of a computer-compatible USR history file which should simplify the task of assembling the USR slides for the current month and will, in addition, add a most useful dimension to the assessment of current unit status.

### 8.3 DETAILED DESCRIPTION OF THE UNIT STATUS REPORT SLIDES

As indicated in Section 8.1, the USR slides currently consist of 18 exhibits depicting battalion status and 5 sets of 8 exhibits, each set portraying the status of one of the component batteries. Although obviously tailored to be especially relevant to a field artillery unit, these slides contain a great deal of information of relevance to any maneuver unit within Forces Command.

A suggested menu of options for handling USR data is presented below in Exhibit 8-2. Note that these options span a spectrum of activities which range from creating a totally new slide to viewing slides previously stored on the removable storage media.

The description of a slide systematically covers four topics: 1) a concise statement of the purpose(s) served by the slide; 2) general considerations in computerizing this slide; 3) a definition of all terms appearing on the slide, with special attention to the relationship to DA Form 2715, and quantities that must be derived from the ATUTMS data base; and 4) an identification of data sources and supporting information, preformatted ATUTMS reports and routine queries, as well as data that the systems designer may elect not to computerize. General considerations in computerizing a slide will typically touch upon the desired reporting frequency, security of the data appearing on the slide, and details of the calculations and other procedures required to produce the slide entries. Finally, a facsimile of the currently used transparency precedes the description of each slide.

Exhibit 8-2. Proposed Menu for the Unit Status Report

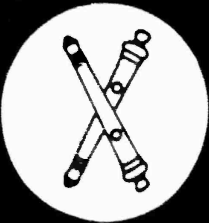
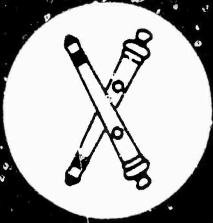
- o LIST (Bn/Btry) SLIDE TOPICS: display the list of slide topics for the indicated unit, in the required briefing order.
- o PREPARE USR SLIDES FOR (Unit) AS OF (Date) : access the application which assists the user in preparing a set of slides for the unit designated; processing logic suggests that these slides be prepared in reverse order, detailed slides on a topic being prepared before the overview slides.
- o VIEW/EDIT/PRINT SLIDES FOR (Unit) AS OF (Date) ON THE FOLLOWING TOPICS:
  - ALL
  - SLIDES            THRU
  - SELECTED TOPICS: (List)

This option permits routine processing of slides for previously defined topics.

- o CREATE A NEW SLIDE: gives access to the application which defines the format and contents of a new slide, defines the variables needed, specifies how the calculations will be performed, etc.

### 8.3.1 Battalion Slides

# OVERALL STATUS



( )

PERSONNEL  
(1)

( )

EQUIP ON HAND  
(2)

( )

EQUIP READINESS  
(3)

( )

TRAINING  
(4)

( )

OVERALL  
(5)

REASON NOT 1  
(6)

CONFIDENTIAL  
(WHEN FILLED IN)

Exhibit 8-3. Bn Overall Status Slide  
Briefing Order: 1

## UNIT STATUS REPORT

TITLE: OVERALL STATUS (1)

PURPOSE: Concisely characterize a unit's capability to perform its assigned mission.

### GENERAL COMMENTS:

- o Primary considerations in a unit's overall status are 1) availability of trained personnel; 2) availability of equipment required for assigned mission; 3) equipment readiness; and 4) unit training status (see Appendix D.1). Additionally, the evaluator of overall status is encouraged to consider other (possibly less tangible) factors bearing upon mission capability.
- o All ratings on this slide are expressed in terms of a Readiness Condition (REDCON) which ranges from 1 to highest, to 4 for lowest capability (see Appendix D.1).
- o A brief explanation must be given for why status is not 1; presumably overall status cannot be 1 if status of personnel, logistics or personnel is not "1" (see Appendix D.2).
- o Status for current month is reported in boxes, for the previous month, in brackets.
- o As described above, all REDCON information is regarded as sensitive; therefore, this slide must not be computerized.
- o This slide must be updated monthly.

### DEFINITIONS:

<u>Item</u>	<u>Comments*</u>	<u>Estimated Characters</u>
1. Personnel	Overall adequacy of the numbers and types of personnel assigned to this unit; rating is a subjective judgment, expressed as a REDCON. (B.22)	1N
2. Equipment on Hand	Overall adequacy of the amounts and types of equipment assigned to this unit, expressed as a REDCON. (B.26)	1N
3. Equipment Readiness	Overall readiness of the major pieces of equipment assigned to the unit, expressed as a REDCON; emphasis is placed on pacing items. (B.30)	1N

\* Following the comment on a slide item is a reference in parentheses to blocks in DA 2715 to which this item is relevant; e.g. item 1, Personnel (Status) is relevant to DA 2715 Block 22, Part B.

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
4. Training	Overall training status evaluated in terms of both MOS skills and the ability to perform assigned ARTEP missions; use the REDCON rating scale. (B.34)	1N
5. Overall	Commander's judgment of this unit's overall combat capability, reflecting his aggregate assessment of personnel, equipment, and training; use the REDCON rating scale. (A.61, B.20)	1N
6. Reason not 1	The primary reason that the overall status REDCON is less than 1; Appendix D.2 lists typical choices for this entry. (B.21) DA 2715 also provides for a secondary and a tertiary reason. (B.38-43)	1A

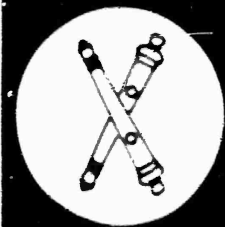
#### DATA SOURCES AND SUPPORTING EXHIBITS:

##### Mandatory:

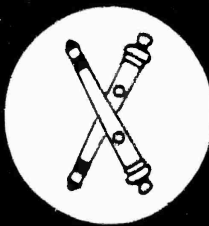
- o All other battalion USR slides.
- o All battery USR slides.
- o Preformatted ATUTMS reports.

##### Desirable:

- o MTOE Personnel and Equipment Recapitulation
- o Historical plots of
  - Available strength
  - Available senior grade strength
  - % on hand ERC-A items
  - % on hand Pacer items (M198 + 5 T truck)
  - % on hand TACFIRE items
  - PLL zero balance
  - % availability of ERC-A items
  - % availability of pacer items
  - % availability of FM radios
  - % availability of 5 T trucks for supply
- o Text from AR 220-1 giving guidelines for assigning REDCON to overall status (Appendix D.1), and listing reasons why overall status is less than 1 (Appendix D.2).



# PERSONNEL STATUS



CONFIDENTIAL  
(WHEN FILLED IN)

UNIT \_\_\_\_\_ RSN NOT C1 \_\_\_\_\_ (1)

STRENGTH  
REDCON (2)

SENIOR GRADE  
REDCON (3)

PERSONNEL  
REDCON (4)

MOS  
REDCON (5)

TURN OVER %  
(6)

STRENGTH %  
(7)

SENIOR GRADE %  
(8)

MOS %  
(9)

DEPLOYABLE %  
(10)

AUTH \_\_\_\_\_ (11)

ASSIGNED \_\_\_\_\_ (12)

CONFIDENTIAL  
(WHEN FILLED IN)

Exhibit 8-4. Bn Personnel Status Slide  
Briefing Order: 2

TITLE: PERSONNEL STATUS (2)

PURPOSE: Concisely characterize the availability of personnel required to perform the unit's assigned mission.

GENERAL COMMENTS:

- o Primary considerations in a unit's personnel status are 1) total strength, 2) senior grade strength, 3) MOS percent fill, and 4) deployable strength.
- o Overall personnel REDCON is identical to the REDCON value used on OVERALL STATUS slide; it is a subjective integration of the other information on this slide, plus information about other factors.
- o All REDCON information on this slide is regarded as sensitive and will not be computerized.
- o Status for the current month is reported in boxes, for the previous month, in brackets.
- o An intermediate step in completing this slide is preparation of the USR Personnel Work Sheet (HFL 1682), both front and back (see Appendix D.4).
- o This slide must be updated weekly.

DEFINITIONS:

<u>Item</u>	<u>Comments*</u>	<u>Estimated Characters</u>
1. Reason Personnel Readiness is not "1"	Primary reason why Personnel Readiness Condition is different from 1; provide for code, followed by brief written explanation; see Appendix D.3 for codes. (B.23-25)	50AN (2 lines)
*2. Strength Readiness Condition	Aggregate assessment of unit strength in light of MTOE; bases of evaluation are 1) operating strength percentage, 2) MOS trained percentage, and 3) senior grade percentage; each measure is converted to a rating from 1 to 4, using Appendix D.1; the strength REDCON is defined as the maximum of the 3 ratings.	1N

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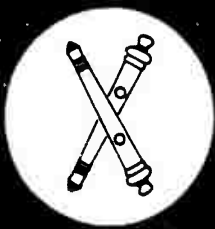
\* Following the comment on a slide item is a reference in parentheses to blocks in DA 2715 to which this item is relevant.

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*3. Senior Grade Readiness Condition	Aggregate assessment of the senior grade personnel assigned in light of MTOE authorization; senior grades are officers, warrant officers, and enlisted men -- grades E5-E9; after calculation of senior grade percentage, the REDCON is assigned using Appendix D.1.	1N
4. Personnel Readiness Condition	Overall assessment of personnel strength, expressed as a REDCON value. (B.22)	1N
5. MOS Readiness Condition	Aggregate assessment of MOS strength in light of MTOE, based on MOS trained percentage; use the senior grade guidelines of Appendix D.1 to convert the percentage to a REDCON value.	1N
*6. Turn Over Percentage	Number of personnel reassigned or discharged during the previous 90 days as a percentage of the operating strength, as the reporting date; report to the nearest 0.1%; n.b. it would be useful for the roster to look backwards for one year. (A.24-25)	5N
*7. Operating Strength Percentage	Assigned operating strength as a percentage of MTOE authorized strength; 0.1% precision is required. (A.15-17)	5N
*8. Senior Grade Percentage	Assigned Senior grades (officers, warrants and E5-E9s) expressed as a percentage of the total authorized by the MTOE; 0.1% precision is required. (A.22-23)	5N
*9. MOS Trained Percentage	Assigned MOS trained strength of the unit expressed as a percentage of the authorized MTOE strength; 0.1% precision is required. (A.20-21)	5N
*10. Deployable Percentage	Operating strength net of non-deployables, expressed as a percentage of MTOE strength; 0.1% precision is required.	5N
*11. Authorized Strength	Number of personnel authorized by the unit's current MTOE; used as the basis for percentage calculations on this slide.	4N
*12. Assigned Strength	Operating strength of the unit as of the reporting date.	4N

\* Calculation can be automated.

DATA SOURCES AND SUPPORTING EXHIBITS:

- o All other Bn USR personnel slides
- o All Btry USR personnel slides
- o Personnel Work Sheet (HFL 1682)
- o Preformatted ATUTMS personnel reports
- o MTOE - Personnel Recap



**CRITICAL SPECIALTY / MOS**

[illegible]

TITLE: CRITICAL SPECIALITY/MOS (3)

PURPOSE: Bring to the attention of higher echelons, the 10 most critical MOSs in light of percentage fill, duty position, projected change in unit's assignment, etc.

GENERAL COMMENTS:

- o This slide will be filled in manually after examination of supporting exhibits.
- o The principal supporting exhibits are the personnel section of the MTOE (especially the personnel recap), the ATUTMS Unit Skill Inventory Report (Exhibit 5-19), and the Unit Manning Report/Roster (Exhibit 5-18).
- o MOSs are listed on the slide in order of decreasing criticality -- the most critical, first; the next most critical, second; etc.
- o Data on this slide are not reported on DA 2715.
- o Data on this slide are not regarded as sensitive and may, therefore, be computerized.
- o This slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. MOS	Military Occupational Speciality, including a two digit skill suffix.	5AN
2. Title	Descriptive title associated with this MOS.	15A
3. Grade	Army enlisted grade or officer rank associated with this MOS.	2AN
*4. Auth	Number of personnel authorized by MTOE for the indicated MOS/grade combination.	3N
*5. Asg	Number of personnel currently assigned to this unit for the indicated MOS/grade combination; n.b. those on special duty or diverted to other units are counted as "assigned".	3N

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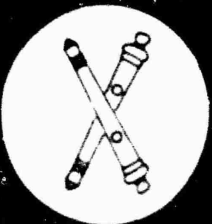
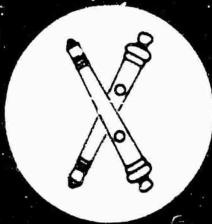
\* Calculations can be automated.

\*\* These items are supplemental to the first eight items which appear explicitly on the CRITICAL SPECIALTY/MOS slide.

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*6. Short	Number authorized (item 4) minus number assigned (item 5).	3N
*7. All Grades Auth	Aggregation of all grades authorized for this MOS by the MTOE.	3N
*8. All Grades Asg	Aggregation of all grades within this MOS currently assigned to this unit.	
*9. Percent Fill, Duty Position**	Item 5 divided by item 4, converted to a percentage.	2N
*10. Percent Fill, MOS**	Item 8 divided by item 7, converted to a percentage.	2N

DATA SOURCES AND SUPPORTING EXHIBITS: see section containing General Comments

**NOT AVAILABLE**



	ETS	PROFILE	HOSPITAL	AWOL	FLAG	CIV CONF	MIL CONF	COURT MART	PREGNANT	OTHER	TOTAL	% TURNOVER
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
CURRENT MO (13)												
PREVIOUS MO (14)												
CHANGE (15)												

Exhibit 8-6. Bn Not Available Slide  
Briefing Order: 4

TITLE: NCT AVAILABLE (4)

PURPOSE Provide a concise tabulation of personnel currently not available for duty in the indicated unit, together with a comparison between current month and previous month for each non-available category; as a second objective, provide a month-to-month comparison of percent turnover.

GENERAL COMMENTS:

- o Primary categories of non-availability are:
  - Within 14 days of separation from the unit;
  - Having a persistent, serious medical problem;
  - Being in the hospital;
  - Being absent without leave;
  - Having undergone or in the process of resolving an unfavorable personnel action;
  - In either military or civilian confinement;
  - Undergoing a court martial; or
  - Pregnant;

An all-encompassing "other" category permits this taxonomy to be comprehensive.

- o This information will be obtained from the individual soldier's personnel record; note that some of the non-available categories are not now reflected in SIDPERS or daily personnel status. The battalion NOT AVAILABLE slide is an aggregation of information prepared in the same format by the component batteries.
- o In some cases a soldier may be judged non-available for several reasons; note that the reasons are listed left-to-right on the slide in terms of decreasing impact on deployability; thus, in the case of multiple reasons, it is suggested that only the most serious reason be used in this report.
- o Completion of this slide is totally redundant with part 5b of the USR Personnel Work Sheet (see Appendix D.4).
- o The two turnover figures reported on this slide are totally redundant with the same information required on the PERSONNEL STATUS Slide.
- o The information on the slide is organized into three rows: 1) previous month; 2) current month; and 3) month-to-month algebraic change.
- o Data on this slide are not reported on DA 2715.
- o Data on this slide are not regarded as sensitive and may, therefore, be computerized.
- o This slide must be updated monthly.

## DEFINITIONS:

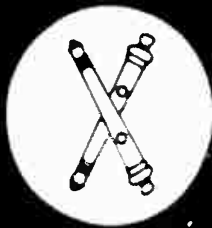
	<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*1.	ETS	Estimated time of separation; individuals within 14 days of separation are not available; note that this must be handled separately from daily personnel status.	3N
*2.	Profile	Not available because of a serious medical problem; such a problem may not be covered by hospitalization; this information is part of an individual's personnel record.	3N
*3.	Hospital	Hospitalized; identical to entry in daily personnel status.	3N
*4.	AWOL	Absent without leave; identical to entry in daily personnel status.	3N
*5.	Flag	Unfavorable personnel action; flags of interest are identified in the Service Data portion of Exhibit 5-8.	3N
*6.	Civilian Confinement	Incarcerated in a civilian prison; should be part of the daily personnel status.	3N
*7.	Military Confinement	Incarcerated in a military prison; noted in daily personnel status.	3N
*8.	Court Martial	Pending Court Martial processing, noted in field pertaining to personnel flags.	3N
*9.	Pregnant	Pregnancy is indicated in the individual personnel record.	3N
*10.	Other	Other reasons for non-availability not provided for above.	3N
*11.	Total	Aggregate of entries in columns 1-10.	3N
*12.	Percent Turnover	Same as item 6 on PERSONNEL STATUS slide; the number of personnel reassigned or discharged from the reporting unit during the previous three months, divided by the current operating strength, and converted to a percentage; 0.1% precision.	5N
*13.	Current Mo.	Tabulation of items 1-12 for the current month.	---
*14.	Previous Mo.	Repetition of items 1-12 for previous month.	---
*15.	Change	Difference between current and previous month for item 1-12.	---

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Current Daily Personnel Status Report for the battalion and its constituent batteries.
- o A list of non-available personnel, organized by major category must be available on demand (preformatted query): The format should be as follows:

NOT AVAILABLE: \_\_\_\_\_ (category) \_\_\_\_\_

<u>NAME/MOS/GRADE</u>	<u>DUTY POSITION:</u>	<u>REMARKS:</u>
XXXXXXXXXX XXXX XX	XXX . . . . . XXX	XXX . . . . . XXX
XXXXXXXXXX XXXX XX	XXX . . . . . XXX	XXX . . . . . XXX
XXXXXXXXXX XXXX XX	XXX . . . . . XXX	XXX . . . . . XXX
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.
.	.	.



## SD-DIVERSIONS



(1) UNIT	(2) ASGD	(3) SD TO BN	(4) SD TO MSC	(5) SD TO DIV/POST	(6) NON MOS RELATED DUTY	(7) COMPANY MANPOWER DIVERIONS	(8) VR/OTHER	(9) TOTAL
HHB								
A BTRY								
B BTRY								
C BTRY								
SVC BTRY								
TOTAL				(10)				(11)

TITLE: SD DIVERSIONS (5)

PURPOSE: Summarize concisely the impact of special duty and other diversions on each one of the battalion's component batteries.

GENERAL COMMENTS:

- o Principal categories of special duty diversions are as follows:
  - Assigned to battalion headquarters;
  - Assigned to brigade;
  - Assigned to division or a post unit;
  - Assigned within the unit to duty position for which the soldier is not MOS-qualified
  - Assigned to duty (within a company or battery) for which there is no recognized duty position; and
  - Other diversions, including temporary duty off-post.
- o Information about special duty-diversions is a part of the soldier's SIDPERS record; codes should be double-checked to insure that SIDPERS covers all of the required categories; unlike the categories for the NOT AVAILABLE slide, only one of the above special duty-diversion categories can apply to a soldier at one point in time. The battalion slide on SD-DIVERSIONS is an aggregation of information prepared in the same format by the component batteries.
- o Completion of this slide is totally redundant with part 5b of the USR Personnel Work Sheet.
- o Data on this slide are not reported on DA 2715.
- o The information on the slide is organized into six rows, as follows:  
1) Headquarters and Headquarters Battery, 2) Battery A, 3) Battery B, 4) Battery C, 5) Service Battery, and 6) totals for each column.
- o Data on this slide are not regarded as sensitive and may, therefore, be computerized.
- o This slide must be updated weekly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*1 Unit	Identification of the battery impacted by the SD-diversions shown.	5A

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*2. Assigned	No. of assigned personnel; also counted are detached personnel.	3N
*3. SD to Bn	Special duty: assigned to battalion headquarters.	3N
*4. SD to Major Sub-command	Special duty: assigned to brigade.	3N
*5. SD to Div/Post	Special duty: assigned to division or post unit.	3N
*6. Non-MOS Related Duty	Assignment to a duty position for which a soldier is not MOS qualified; e.g. a cook assigned to driving a 5 Ton truck.	3N
*7. Company Manpower Diversions	Duty assignment internal to a company for which there is no recognized duty position (e.g. company clerk).	3N
*8. VR/Other	(e.g., off-post school, other temporary duty off-post).	3N
*9. Unit Total	Total no. of personnel assigned to special duty for this unit; total of items (columns) 1-8.	3N
*10. Total for Type of Diversion	Sum across all component units of individuals assigned to each category of special duty.	
*11. Aggregate no. of Diversions	A total of item 9 across all categories of diversion.	

---

\* Calculation can be automated.

DATA SOURCES AND SUPPORTING EXHIBITS:

A list of individuals in each diversion category must be available on demand (command query). The format should be as follows:

<u>NAME/MOS/GRADE:</u>	<u>REASSIGNED TO:</u>	<u>NORMAL DUTY POSITION:</u>
XXXXXXXXXX XXXXX XX	XXX . . . . . XXX	XXXXXXXXXX
XXXXXXXXXX XXXXX XX	XXX . . . . . XXX	XXXXXXXXXX
XXXXXXXXXX XXXXX XX	XXX . . . . . XXX	XXXXXXXXXX
.	.	.
.	.	.
.	.	.
.	.	.



# LOGISTICS



(1)  
ES

%

( )

(2)  
ER

%

( )

(3)  
PIES

%

( )

(4)  
PIER

%

( )

( ) PREVIOUS

Exhibit 8-8. Bn Logistics Slide  
Briefing Order: 6

TITLE: LOGISTICS (6)

PURPOSE: Concisely portray the aggregate status of ERC A equipment (according to MTOE equipment code), with special attention to pacing items. For the host unit, there are two pacing items: 1) the M198 howitzer (K57821), and 2) the 5 Ton cargo truck used to tow the M198 howitzer (X40968).

GENERAL COMMENTS:

- o For the current month, two ratings are given: 1) an overall availability or readiness score expressed as a percent, and 2) a REDCON value which is derived from the percentage score, as described in the calculations section below.
- o REDCON figures for the current month (previous 30 days) are recorded in boxes; figures for the previous month, in brackets (a 30 day period, beginning 31 days in the past).
- o Data for preparing this slide are obtained from the computerized Materiel Readiness Report (DA 2406). These data must be congruent with an aggregation of the logistics data reported by the component batteries on the lower portion of the BATTERY PLL STATUS slide.
- o Although the data on this slide are not flagged as CONFIDENTIAL, they are obviously quite sensitive and must be handled accordingly.
- o This slide must be updated daily.

DEFINITIONS:

<u>Item</u>	<u>Comments**</u>	<u>Estimated Characters</u>
*1. ES	Equipment status, defined as equipment on hand as a percentage of equipment authorized under the current MTOE; only ERC-A items are considered; three values are listed:	
	o Current month percentage, 0.1% precision is required. (DA 2715 has no provision for reporting percentage of ERC-A items on hand.)	3N
	o Current month REDCON, based upon calculated percentage. (B.26)	1N
	o Previous month REDCON.	1N
*2. ER	Equipment readiness, defined as the percentage of time during the previous month which the unit's ERC A equipment was (mechanically and electrically) available for use in performance of the unit's mission; three items are reported:	

<u>Item</u>	<u>Comments**</u>	<u>Estimated Characters</u>
	o Current month percentage, 0.1% precision is required. (A.43-44)	3N
	o Current month REDCON, based upon calculated percentage. (B.30)	1N
	o Previous month REDCON.	1N
3. PIES	Pacing item equipment status; equipment on hand as a percentage of equipment authorized for all of the unit's pacing items; calculation is identical to equipment status (ES); 1/11 FA has the following pacing items:	
	18 M198 Howitzer, Medium Towed (K57821)	
	18 5 Ton Cargo Truck (X40968)	
	<u>36</u> Pacing Items Total	
	Three items are reported:	
	o Current month percentage, 0.1% precision is required. (A.41-42)	3N
	o Current month REDCON, based upon calculated percentage.	1N
	o Previous month REDCON.	1N
4. PIER	Pacing item equipment readiness, defined as the percentage of time during the previous month when the unit's 36 pacing items were available for use in performance of the unit's mission; calculation is identical to equipment readiness (ER); three items are reported:	
	o Current month percentage, 0.1% precision is required. (A.45-46)	3N
	o Current month REDCON, based upon calculated percentage.	1N
	o Previous month REDCON.	1N

\* Calculation can be automated.

\*\* The correspondence between a slide item and blocks on DA 2715 is indicated by a parenthetical reference.

CALCULATIONS: (from Unit Status Reporting, Short Course ISO267, pp. 24-28).

Equipment Status and Pacing Item Equipment Status:

Compute data as follows:

(1) Total reportable line items. Refer to MTOE/TDA, Section III, Equipment Allowances Recapitulation, and identify the line item numbers (LIN) which -

- (a) have a number of 1, or greater, indicated in the required column of the MTOE, and
- (b) are coded A (Primary Weapons and Equipment) in Section III, Equipment Recapitulation, of the annotated MTOE.

(2) LIN rating criteria. For each LIN identified in (1) above with a required column MTOE of 21 or more items, compute the percentage of fill and determine the LIN rating by dividing the total number of on-hand items and/or in lieu of (ILO) items (a) below by the TOE/MTOE required column for that LIN. For reportable LIN with a required quantity of 20 or less items, use table 1 to determine the rating for that LIN.

(a) Quantity on hand is determined from the Unit Property Book. In order for an item to be counted in the above calculations as issued in lieu of, it must be classified Logistics Control Code (LCC) A, B, F, T, or U (regardless of RICC code) and it must fulfill the operational requirement. Examples of reporting substitute items are:

- 1. Older generation equipment on hand ILO more modern equipment (e.g., recoilless rifles for the TOW; M48A5 tank for the M60A1 tank). Mission essential contingency items (MECI) on hand ILO standard items (e.g., AN/GRC-3 through -8 for AN/VRC-12 series radio sets).
- 2. Items which perform the same basic function but with different characteristics (e.g., towed Vulcan for the self-propelled Vulcan; 2-1/2 ton trucks w/o winch for 2-1/2 ton truck w/winch).
- 3. Items which are authorized in the MTOE in lieu of the required reportable item. Normally, such authorized substitutes immediately follow the preferred or required item on the MTOE as shown below or are appropriately identified in the MTOE remarks column.

<u>Item</u>	<u>Required</u>	<u>Authorized</u>
Required item	16	0
Authorized substitute	0	16

- 4. For substitute items issued on other than a one-for-one basis, calculate an appropriate adjusted quantity of fill for the required MTOE LIN. Then compute the

Table 1. Equipment on Hand Required Full Criteria\*

MTOE required quantity per line	Rating			
	1	2	3	4
20	18	16	14	13 or less
19	17	15	13	12 or less
18	16	14	12	11 or less
17	15	13	12	11 or less
16	14	12	11	10 or less
15	13	12	10	9 or less
14	12	11	10	9 or less
13	11	10	9	8 or less
12	11	9	8	7 or less
11	10	9	8	7 or less
10	9	8	7	6 or less
9	8	7	6	5 or less
8	7	6	5	4 or less
7	6	-	5	4 or less
6	5	-	4	3 or less
5	4	-	3	2 or less
4	3	2	-	1 or less
3	2	1	-	0
2	1	1	-	0
1	1	-	-	0

\* Use the highest rating for which the actual fill of a given line qualifies.

percentage of fill and determine rating for the required MTOE LIN as indicated above. EXAMPLE: The MTOE required column quantity for 10-kw generators is 10. The unit has no 10-kw generators, but 12 5-kw generators were issued. These 12 5-kw generators fulfill operational requirements and are counted as substitutes for 6 of the 10-kw generators. The adjusted quantity of fill for 10-kw generators is 6. The percentage of fill for 10-kw generators is calculated as follows:

Unit required LIN	10 ea	10-kw generators
Unit has on hand	0 ea	10-kw generators
Unit has on hand	12 ea	5-kw generators

Two ea 5-kw generators are a substitute for 10 kw.  
Divide 10 into 6.: multiply 100 x .6 = 60.0 or 60%

Percent fill for the 10-kw generators LIN is 60%. The unit has only 60% of the generators required. This LIN is rated 4.

(b) Reportable LIN consisting of several components (e.g., toolkits or sets) will be reported as on hand if property records indicate the LIN has been issued and is sufficiently complete to be used for its intended purpose. If the LIN is missing or depleted to the extent that supply action (e.g., report of survey) is necessary to replace the majority of the set, the set will not be counted as on hand. If supply actions are not required to replace the entire set and the criteria described above can be met, count the item as on hand.

(c) Reserve component units include all reportable equipment at Equipment Concentration Sites (ECS), Unit Training Equipment Sites (UTES), Mobilization and Training Equipment Sites (MATGES), Weekend Training Sites (WETS), Area Equipment Compunds (AEC), and Annual Training Equipment Pools (ATEP).

(d) Do not count borrowed items.

(e) Do not count items which are substitutes for non-reportable items.

(3) Determining rating. After computing the percent of fill for each reportable LIN, determine rating as follows: Categorize the LIN's filled to at least 90 percent as C1; LIN's filled to at least 80 percent, but less than 90 percent, as C2; LIN's filled to at least 70 percent, but less than 80 percent, as C3; and LIN's less than 70 percent fill, C4. When the MTOE required column quantity for a LIN is 20 or less, use table 1 to determine the C-rating for that LIN.

(4) Pacing items percentage of fill. If an item identified in a (1) above is designated a pacing item, enter the percentage of fill of the item in Blocks 41 and 42\*. Otherwise, leave Blocks 41 and 42 blank. If a unit has more than one pacing item, enter the percentage of fill for the pacing item that is least filled. Missile systems listed as pacing items that do not have a LIN will be reported as the ratio of systems onhand versus systems authorized.

## Equipment Readiness and Pacing Item Equipment Readiness:

Compute and enter data as follows:

(1) Unit operationally ready rate. Active component units compute unit operationally ready data for the period beginning the 16th day of the previous month and ending the 15th day of the current month as follows: Reserve component units will compute unit OR data using the most recent quarterly Materiel Readiness Report (DA Form 2406) and quarterly Army Aircraft Inventory, Status and Flying Time Report (DA Form 1352). For Reserve component units, the total for columns g and h will include the entire quarter as opposed to a 30-day period for the active component.

(a) Identify items of equipment on the quarterly DA Form 2406 and monthly DA Form 1352 that were previously reported as equipment on hand (a above) and compute the operational ready (OR) rate for the unit. The unit OR rate is determined by dividing the total available days (column h, DA Form 2406) by the total possible days (column g, DA Form 2406), for equipment identified as EOH: convert the result to a percentage.

(b) Units with aircraft will include the total available and possible days taken from DA Form 1352 in the unit's total for columns g and h of the DA Form 2406. Hours reflected on DA Form 1352 will be converted to days for use on the DA Form 2406. For computing the possible days all units with aircraft will use a weighted average based on the DA OR standard for the area (App A, AR 95-33). An aircraft weighted conversion will be applied by multiplying the possible days by the DA standard which will equal the adjusted possible days for determining the unit's operationally ready rate (OR) (Table 2).

(2) Pacing item operationally ready rate. If a LIN identified in a (1) above is designated a pacing item (App B), determine the operational ready rate in the same manner as in (1) (a) above. Compare the pacing item OR rate to table 4. Units with aircraft as pacing items will compute the OR rate as outlined in (1) (b) above and determine rating using table 4. When a unit has more than one pacing item, determine the rating for each pacing item and report the lowest rating as the aggregate rating.

### DATA SOURCES AND SUPPORTING EXHIBITS:

- o MTOE
- o Materiel Readiness Report

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\* Blocks refer to data entry blocks on Form DA 2715.

Table 2. Equipment Readiness Computations using DA Form 2406

ES Computations using DA Form 2406

Item	AUTH	O/H	Possible days (Report days x O/H)	Available <sup>1</sup>	(Aircraft Weighted Conversion)
AH-1G	10	10	225	210	300 (pos days) x .75 (DA Area Std)
UH-1	20	20	420	420	600 (pos days) x .70 (DA Area Std)
OH-68	8	8	168	150	240 (pos days) x .70 (DA Area Std)
Tank, M60A1 <sup>2</sup>	54	51	1,530	1,260	
Carrier, MTR, M106	4	4	120	110	
Truck, 1/4 ton	46	43	1,290	1,200	
Truck, Cargo M561	7	7	210	190	
Total			3,963	3,540	

$$\text{Unit OR Rate} = \frac{\text{Available Days}}{\text{Possible Days}} = \frac{3540}{3963} = 89\% \text{ which equates to C2.}$$

$$\text{Pacing Item Rate} = \frac{\text{Pacing item available days}}{\text{Pacing item possible days}} = \frac{1260}{1530} = 82\% \text{— Pacing item OR rate is compared with table 3-5 and C2 is selected as pacing item rating.}$$

UNIT ES RATING

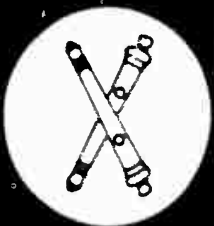
Unit ES rating is lesser of unit OR rating and pacing item rating. Pacing item rating is the lesser, therefore unit ES rating is C2.

<sup>1</sup> Example does not represent an actual unit but is made to show varying entries and computations used to determine a unit ES rating.

<sup>2</sup> Available days cannot exceed possible days.

<sup>3</sup> Item is designated a pacing item for unit. (See app B.)

# PLL STATUS



( )

TOTAL (1)  
LINES

( )

TOTAL (2)  
LINES 0-BALANCE

( )

TOTAL (3)  
LINES % 0-BALANCE

ERC -A

PF•

P

D/L BECAUSE OF PLL 0-BALANCE <sup>(4)</sup> ( ) PREVIOUS

Exhibit 8-9. Bn PLL Status Slide  
Briefing Order; 7

TITLE: PLL STATUS (7)

PURPOSE: Summarize the status of the unit's Prescribed Load List (PLL), with emphasis upon the number of zero-balance items (out-of-stock) and the corresponding impact on deadlined (inoperable) equipment.

GENERAL COMMENTS:

- o The PLL is a set of repair part items for which a unit is required to carry a 15-day supply, adjusted for current usage. Typically a PLL item is a frequently used replacement for a failed part in an ERC A piece of equipment. Thus, PLL inventory levels impact the readiness figures reported in LOGISTICS (slide 6).
- o The PLL summary on slide 6 is reported on DA 2715. It is simply an aggregation of data on the upper portion of the BATTERY PLL STATUS slides.
- o Current month's data are reported in boxes or blanks; data for the previous month, in brackets.
- o Except for the report of deadlined items, the information on this slide is not particularly sensitive.
- o This slide must be updated daily.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
*1. Total Lines	The total no. of lines (items) which the unit is currently authorized to carry in its PLL.	3N
*2. Total Lines O-Balance	The number of PLL lines (items) which show a zero balance (none on hand) as of the date of this report.	3N
*3. Total Lines % O-Balance	Zero-balance lines (item 2) expressed as a percent of total lines (item 1), rounded to the nearest 0.1 percent.	3N
4. D/L because of PLL O-Balance	The no. of ERC-A pieces of equipment which are deadlined (not available for operation) because of an unavailable PLL item.	3N

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Current list of PLL items, with zero-balance indicated.
- o Time series of total PLL lines and total lines zero-balance.
- o Materiel Readiness Report (DA 2406)

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\* Calculation can be automated.



# MISSION ESSENTIAL EQUIPMENT UNIT



NON MISSION CAPABLE (5)

(1) NOMENCLATURE	(2) AUTH	(3) ASSGN	(4) OPERATIONAL	ORGANIZATION	SUPPORT	OTHER
BCS						
VFMED						
DMD						
GLLD						
AIMING CIRCLE						
PADS						
THEODOLITE						
SIAGI						
DM-60						
NVG						
PRC -77						
PRC -68						
MINE DETECTOR						
M-90 CRONOGRAPH						

Exhibit 8-10. Bn Mission Essential Equipment Unit Slide  
Briefing Order: 8

TITLE: MISSION ESSENTIAL EQUIPMENT (8)

PURPOSE: Summarize the status of individual categories of equipment which are deemed essential to the performance of the unit's primary mission.

GENERAL COMMENTS:

- o The data on this slide are factual; no subjective judgments are required; the primary source of data for this slide is the Materiel Readiness Report (DA 2406).
- o The data on this slide are not reported on DA 2715.
- o The responsibility for entering the data on this slide is shared by the Battalion Motor Officer (BMO) and the Fire Support Officer (FSO); specific responsibilities are indicated in the definition of individual variables, below. Apparently, no formal records are currently kept for these data.
- o This slide is not classified as CONFIDENTIAL: however it clearly contains sensitive information, and so measures must be taken to guard against unauthorized access.
- o Data on this slide must be updated monthly.

DEFINITIONS:

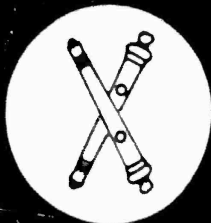
<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Nomenclature	A listing of mission essential equipment; definitions follow.	15AN each line
o BCS	Battery Computer System; status input by the BMO	
o VFMED	Variable Format Message Entry Device (a computer); status input by the BMO and the FSO.	
o DMD	Digital Message Device (another computer); status is input by the FSO.	
o GLLD	Ground Laser Locator/Designator; status is input by the FSO.	
o Aiming Circle	A survey instrument which has the capabil- ities of a simple transit; status is input by the BMO.	
o PADS	Positioning Azimuth Determining System, jeep mounted; used by the survey section; status is input by the BMO.	

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
o Theodolite	A very precise aiming circle; status is input by the BMO.	
o SIAGI	Survey Instrument; status is input by the BMO.	
o DM-60	A laser distance measuring device; status is input by the BMO.	
o NVG	Night Vision Goggles, issued to each battery; status is input by the BMO.	
o PRC-77	A portable radio which is transportable by a man (rather heavy); status is input by the BMO.	
o PRC-68	A portable radio which is much smaller than the PRC-77; it has a very short range and is typically assigned to a squad; status is input by both the BMO and FSO.	
o Mine Detector	A piece of equipment used to locate buried mines; status is input by the BMO.	
o M-90 Chronograph	An instrument used to measure the muzzle velocity of the battalion's howitzers; used to calibrate each gun; status is input by the BMO.	
2. Auth	Number of items authorized by the current MTOE.	3N each line
3. Assgn	Number of items which are currently "on hand" (assigned to the unit).	3N
4. Operational	Number of items which are currently ready for use or "operational".	3N
5. Non-Mission Capable	A breakdown of the items which are currently not operational or "not mission capable"; the physical location of each item must be indicated, together with the reason why it is down; thus,  o "Organization Supply" indicates that the item is at battalion awaiting parts.  o "Organization Maint" indicates that the item is at battalion undergoing repair, and that the necessary parts are available.	3N each column, and each line

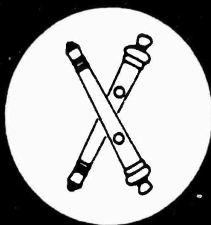
<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
	o "Support Supply" indicates that the item is at the division maintenance facility awaiting parts.	
	o "Support Maint" indicates that the item is at the division maintenance facility undergoing repair, and that the necessary parts are available.	
	o "Other" is the catch-all category for items which do not fit in the preceding four categories; e.g. an item that has been sent back to the manufacturer for repair or an item for which repair parts had to be ordered from the manufacturer.	

DATA SOURCES AND SUPPORTING EXHIBITS:

- o MTOE
- o Material Readiness Report (DA 2406)



# PLL TAMMS CERTIFICATION PROGRAM



(1) DUTY POSITION	(2)	(3)						(4) REMARKS
		CURRENTLY CERTIFIED 90%		CURRENTLY QUALIFIED 80%		NOT QUALIFIED		
		PLL	TAMMS	PLL	TAMMS	PLL	TAMMS	
CLERKS								
SUPERVISORS								
BN MTR OFF								
AUTO MNT TECH								
BN MTR SGT								
BTRY MTR OFF								
BTRY MTR SGT								
OTHERS (5)								
TOTAL SUPERVISORS								

Exhibit 8-11. Bn PLL TAMMS Certification Program Slide  
Briefing Order: 9

TITLE: PLL TAMMS CERTIFICATION (9)

PURPOSE: Summary of the training status of the PLL and TAMMS personnel, in light of test scores recorded for the most recent PLL and TAMMS evaluations.

GENERAL COMMENTS:

- o The data to complete this report are currently kept by both the battalion SI and the battalion motor officer. ATUTMS will incorporate these data into the personnel module.
- o The information on this slide is not reported on DA 2715.
- o The information on this slide is not regarded as sensitive.
- o Data on this slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Duty Position	A list of the duty positions embracing the unit's PLL and TAMMS personnel, including officers, warrant officers, and enlisted men; duty position titles should be self-explanatory except for MTR (Motor) and EM (Enlisted Men).	15A, for each row
2. Number Assig	Total number of personnel assigned to this duty position in the unit.	2N
3. (Degree of Certification)	Three levels of certification are recognized: <ul style="list-style-type: none"><li>o "Certified": score of 90%, or better.</li><li>o "Completed Courses": satisfactory completion of the requisite PLL or TAMMS courses but have not yet undergone a formal examination of certification.</li><li>o "Not Certified": achieved a score of less than 90% on the certifying examination.</li></ul> Column headings should be self-explanatory; for each entry in the body of this table allow	2N
4. Remarks	Brief comments on the training status of those in the indicated duty position	15AN
5. Non-Duty Psn	Soldiers (typically officers) who have some level of PLL/TAMMS qualification (indicate in appropriate column) but who are not presently assigned to the motor pool.	2N

DATA SOURCES AND SUPPORTING EXHIBITS:  
Unit Skill Inventory Report



# TRAINING



<sup>(1)</sup>  
TRNG RATING ( )

## FACTORS CONSIDERED:

<sup>(2)</sup> TRNG WEEKS \_\_\_\_ ( ) <sup>(3)</sup> OP STR \_\_\_\_ ( ) <sup>(4)</sup> BMM \_\_\_\_ ( ) <sup>(5)</sup> FUNDS \_\_\_\_ ( )

<sup>(6)</sup> EQUIP/MATERIEL \_\_\_\_ ( ) <sup>(7)</sup> QUALIFIED LDRS \_\_\_\_ ( )

<sup>(8)</sup> TRNG AREAS/FACILITIES \_\_\_\_ ( ) <sup>(9)</sup> FUEL \_\_\_\_ ( )

<sup>(10)</sup> AMMUNITION \_\_\_\_ ( ) <sup>(11)</sup> TIME \_\_\_\_ ( )

<sup>(12)</sup> REMARKS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TITLE: TRAINING (10)

PURPOSE: Provide a concise summary of a unit's training to perform its assigned mission; a secondary objective is to indicate the impact of a resource shortfall on training ability, and consequently, unit readiness.

GENERAL COMMENTS:

- o All of the data on this slide consist of subjective evaluations or judgments; the overall training status is expressed as a REDCON and is identical to the training status reported on the OVERALL STATUS slide. Except for an estimate of weeks required to train to satisfactory mission capability, all other entries are expressed in terms of status A, B, or C, indicating that a resource is
  - A: satisfactory,
  - B: marginal,
  - C: seriously deficient
- o Although not marked CONFIDENTIAL, the information recorded on this slide is obviously sensitive and must be protected against unauthorized access.
- o Ratings for the current month are reported in boxes or underlined spaces; ratings for the previous month, in brackets.
- o Data on this slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments**</u>	<u>Estimated Characters</u>
1. Trng Rating	Overall training status, in light of the factors listed on this slide, plus other factors at the commander's discretion; rating is expressed as a REDCON; guide-lines for assigning a REDCON value may be found in Appendix A. (B.34)	1N
2. Trng Weeks	Calendar weeks required to attain a fully trained status; commander's subjective estimate. (A.51)	2N
3. Op Str	Impact of a shortfall in assigned operating strength on ability to train to REDCON 1; rate as A, B, or C. (A.52)	1A
4. BMM	Borrowed military manpower; the degree to which the unit is understrength as a result of special duty-diversions; use A, B, or C. (A.53)	1A

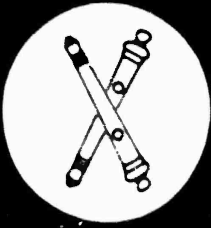
<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
5. Funds	Availability of funds to support training and meet all other unit obligations programmed for the current fiscal year; rate as A, B, or C. (A.54)	1A
6. Equip/ Material	Availability of equipment and supplies required to meet training objectives and other unit obligations; rate as A, B, or C. (A.55)	1A
7. Qualified Ldrs	Availability of leaders qualified to conduct the required training; rate as A, B, or C. (A.56)	1A
8. Trng Areas/ Facilities	Availability of training areas and other facilities required to conduct the necessary training; rate as A, B, or C. (A.57)	1A
9. Fuel	Availability of fuel needed to meet training objectives and other unit objectives; rate as A, B, or C. (A.58)	
10. Ammunition	Availability of ammunition to meet training objectives and discharge other unit obligations; rate as A, B, or C. (A.59)	1A
11. Time	Availability of training time to reach REDCON 1 within the time period indicated in the factor titled TRNG WEEKS: rate as A, B, or C. (A.60)	1A
12. Remarks	Explanatory remarks appended by the commander. (see B.35-37)	120AN

DATA SOURCES AND SUPPORTING EXHIBITS:

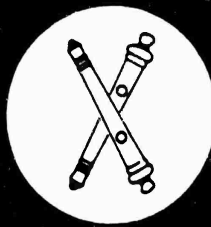
- o ATUTMS preformatted reports,
- o MTOE,
- o Training schedules and battalion calendar (not computerized), and
- o Current budgetary data (not computerized).

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\*\* The correspondence between a slide item and blocks on DA 2715 is indicated by a parenthetical reference.



# TRAINING STATUS



LAST BN ARTEP (1)

DATE \_\_\_\_\_

LOC \_\_\_\_\_

LAST EDRE (2)

DATE \_\_\_\_\_

LOC \_\_\_\_\_

CO ARTEPS [FY] (3)

CO LOC DATE

(4)

NBC UNIT  
[STATUS]

(6)

APFT  
[# REQ/STATUS]

NBC INDIV  
[# REQ/STATUS]

INDIV WPN QUAL  
[# REQ/STATUS]

(8)

DRAGON  
[# REQ/STATUS]

M-60  
[# REQ/STATUS]

81MM MORT  
[# REQ/STATUS]

TOW  
[# REQ/STATUS]

90MM RR  
[# REQ/STATUS]

M-2  
[# REQ/STATUS]

4.2 MORT  
[# REQ/STATUS]

TITLE: TRAINING STATUS (11)

PURPOSE: Concisely summarize the training status of battalion and battery ARTEP exercises, the unit's marksmanship with individual and crew served weapons, and the status of nuclear-biological-chemical (NBC) preparedness training at both the individual and unit level.

GENERAL COMMENTS:

- o The information presented on this slide summarizes information in the ATUTMS' individual and collective training data base.
- o Weapons and NBC training are characterized in terms of three levels of readiness: 1) green (fully trained), 2) yellow (partially trained), and 3) red (untrained or severely deficient).
- o Data on this slide are not reported on DA 2715.
- o Although this slide is not marked CONFIDENTIAL, the information it contains is highly sensitive and must be protected against unauthorized access.
- o This slide must be updated monthly.

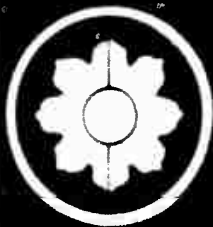
DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Last BN ARTEP	Date and location of last battalion ARTEP:	
	Date format is YY.MM	5AN
	Location (LOC)	10A
2. Last EDRE	Date and location of last emergency deployment readiness exercise:	
	Date format is YY.MM	5AN
	Location (LOC)	10A
3. CO ARTEPS (FY)	Date and location of the last ARTEPS performed by the component batteries during the current fiscal year (or last 12 months if at beginning of a fiscal year).	
	Unit identification (CO): e.g. BTRY A	7A
	Location (LOC)	10A
	Date format is YY.MM	5AN

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
4. NBC Unit Status	Status of the battalion's NBC training, coded as green/yellow/red.	1A
5. NBC Indiv. (#Reg/Status)	Aggregate status of individual NBC training within the battalion:	
	Number in green status	3N
	Aggregate battalion status (G/Y/R)	1A
6. APFT #Reg/Status)	Aggregate status of Army Physical Fitness Training within the battalion:	
	Number in green status	3N
	Aggregate battalion status (G/Y/R)	1A
7. Indiv. Wpn Qual (#Reg/Status)	Aggregate status of individual weapons qualification fires:	
	Number in green status	3N
	Aggregate Bn status (G/Y/R)	1A
8. Status of training on selected crew-served weapons: for the host unit, only the M-60 and M-2 machine guns are applicable to 1/11 FA; for each weapon report:		
	Number in green status	3N
	Aggregate Bn status (G/Y/R)	1A

#### DATA SOURCES AND SUPPORTING EXHIBITS:

- o Preformatted reports of battalion and battery ARTEP training.
- o Preformatted report on mandatory individual training.
- o Preformatted report on team training.



# NUCLEAR TRAINING



UNIT

SAS TEAMS

ASSEMBLY TEAMS

(1)

(2)

(3)

(4)

REQUIRED TRAINED

GOAL TRAINED

HHB
A BTRY
B BTRY
C BTRY



TITLE: NUCLEAR TRAINING (12)

PURPOSE: Provide a concise summary, by battery, of the status of nuclear weapons training within the battalion.

GENERAL COMMENTS:

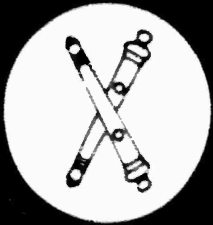
- o All of the entries in the body of this slide are counts of personnel falling into various categories; no subjective evaluations of overall readiness are included.
- o This slide is designed for use by an artillery battalion with a weapons capability similar to the host unit for the ATUTMS demonstration; data on this slide are not reported on DA 2715.
- o Reslotting of trained personnel either within or between batteries must be flagged.
- o Although not marked CONFIDENTIAL, the information on this slide is obviously sensitive and must be protected against unauthorized access.
- o This slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. SAS Teams, Required	The number of personnel required by the SAS team in the indicated battery; note that four batteries or battery groupings are identified: Headquarters/Headquarters Battery plus Service Battery; Battery A; Battery B; and Battery C.	2N
2. SAS Teams, Trained	The number of personnel trained for the SAS team in the indicated battery.	2N
3. Assembly Teams, Goal	The goal for the number of soldiers to be trained as special weapons assemblers for the indicated battery.	2N
4. Assembly Teams, Trained	The number of personnel currently trained as special weapons assemblers for the indicated battery.	2N

DATA SOURCES AND SUPPORTING EXHIBITS:

- o The preformatted ATUTMS report dealing with team training.
- o The current ATUTMS special weapons roster (PRP/SAS/EAT).
- o Training schedules, including those resident in ATUTMS.



# BRIGADE FIRE SUPPORT



UNIT \_\_\_\_\_

AS OF \_\_\_\_\_

BDE FSO	(04)	_____
FS NCO	(E - 7)	_____
ASST FS NCO	(E - 5)	_____
FS SPECIALISTS	(E - 4)	_____
	(E - 4)	_____
	(E - 4)	_____

(1)

## TRAINING HIGHLIGHTS (2)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Exhibit 8-15. Bn Brigade Fire Support Slide  
Briefing Order: 13

TITLE: BRIGADE FIRE SUPPORT (13)

PURPOSE: Identify the individuals responsible for liaison with the Brigade Fire Support Unit and briefly document their state of training.

GENERAL COMMENTS:

- o This slide is designed for use by a battalion of Division Artillery; data to complete this slide may be found in the ATUTMS personnel module.
- o Data on this slide are not reported on DA 2715.
- o The information on this slide is not regarded as highly sensitive.
- o This slide must be updated weekly.

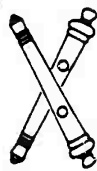
DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Name of the soldiers assigned to Brigade Fire Support; there should be a direct correspondence between these names and the individuals slotted in these duty positions in the UMR: n.b. the grade associated with each duty position is nominal; it must be edited to reflect the actual grade of the current incumbent:		
o BDE FSO (04) Brigade Fire Support Officer		15A
o FS NCO (E7) Fire Support Non-Commissioned Officer		15A
o ASST FS NCO (E5) Assistant Fire Support Non-Commissioned Officer		15A
o FS SPECIAL-ISTS (E4) Fire Support Specialists; three are required		15A, each
2. Training Highlights	Brief characterization of training activities involving the Brigade Fire Support Team during the current month; entries in this portion of the slide are made by the battalion commander.	200N

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Unit Manning Report.
- o Preformatted report on team training.
- o Training schedules, including those resident in ATUTMS.

# BATTALION FIRE SUPPORT



UNIT \_\_\_\_\_

AS OF \_\_\_\_\_

BN FSO (03) \_\_\_\_\_

FIRE SUPPORT NCO (E-7) \_\_\_\_\_

FS SPECIALISTS (E-4) \_\_\_\_\_

(E-4) \_\_\_\_\_

FOLT #1

FORWARD OBSERVER (E-5) \_\_\_\_\_

FS SPECIALIST (E-4) \_\_\_\_\_

FOLT #2

FORWARD OBSERVER (E-5) \_\_\_\_\_

FS SPECIALIST (E-4) \_\_\_\_\_

(1)

(2)

8-51

COMPANY

FIST CHIEF (02) \_\_\_\_\_

FIRE SUPPORT NCO (E-6) \_\_\_\_\_

ASST FS NCO (E-5) \_\_\_\_\_

RTO (E-3) \_\_\_\_\_

FOLT

FORWARD OBSERVER (E-5) \_\_\_\_\_

FS SPECIALIST (E-4) \_\_\_\_\_

COMPANY

FIST CHIEF (02) \_\_\_\_\_

FIRE SUPPORT NCO (E-6) \_\_\_\_\_

ASST FS NCO (E-5) \_\_\_\_\_

RTO (E-3) \_\_\_\_\_

FOLT

FORWARD OBSERVER (E-5) \_\_\_\_\_

FS SPECIALIST (E-4) \_\_\_\_\_

COMPANY

FIST CHIEF (02) \_\_\_\_\_

FIRE SUPPORT NCO (E-6) \_\_\_\_\_

ASST FS NCO (E-5) \_\_\_\_\_

RTO (E-3) \_\_\_\_\_

FOLT

FORWARD OBSERVER (E-5) \_\_\_\_\_

FS SPECIALIST (E-4) \_\_\_\_\_

(3)

TITLE: BATTALION FIRE SUPPORT (14)

PURPOSE: Identify the individuals responsible for liaison with the infantry units for which this battalion is providing fire support.

GENERAL COMMENTS:

- o This slide is designed for use by a battalion of Division Artillery; data to complete this slide may be found in the ATUTMS personnel module.
- o Data on this slide are not reported on DA 2715.
- o Unlike the slide for BRIGADE FIRE SUPPORT, no provision is made for comments about the state of training.
- o The information on this slide is not regarded as highly sensitive.
- o Data on this slide must be updated weekly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
Names of the soldiers assigned to various elements of Battalion Fire Support; there should be a direct correspondence between these names and the individuals slotted in these duty positions in the UMR; n.b. the grade associated with each duty position is nominal; it must be edited to reflect the actual grade of the current incumbent:		
1. <u>Battalion Headquarters:</u>		
BN FSO (03)	Battalion Fire Support Officer	15A
FIRE SUPPORT NCO (E7)	Fire Support Non-Commissioned Officer	15A
FIRE SUPPORT SPECIALISTS (E4)	Two are required	15A, each
2. <u>Forward Observer Liaison Team (FOLT):</u>		
There are two teams; each has two slots:		
FORWARD OBSERVER (E-5)		15A
FS SPECIALIST		15A

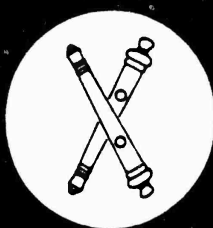
<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
3.	<u>Resident Forward Observer Liaison:</u>	
	There are three teams, one assigned to each firing battery; each team has six slide entries:	
_____ COMPANY	Identification of firing battery	1A
FIRE SUPPORT NCO (E6)		15A
ASST FS NCO (E5)		15A
RTO (E3)	Range and Target Officer	15A
FOLT/FORWARD OBSERVER (E5)		15A
FOLT/FIRE SUPPORT SPECIALIST (E4)		15A

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Unit Manning Report.
- o Training schedules, including those resident in ATUTMS.



# **TACFIRE PERSONNEL STATUS (DS BN)** **FA FIRE DIRECTION SECTION**



(1) POSITION / GRADE	(2)	(3) AUTH MOS	(4) RANK / NAME	(5) SCHOOL	(6) RECOM / ATT	(7) REMARKS	(8)
FIRE DIRECTION OFF [03]		13E5H					11WK/
FIRE CONTROL NCO [E 7]		13C40					11WK/
COMPUTER OPERATOR [E 6]		13C30					11WK/
COMPUTER OPERATOR [E 6]		13C30					11WK/
EQUIPMENT SPECIALIST [E 5]		13C20					11WK/
EQUIPMENT SPECIALIST [E 5]		13C20					11WK/
OPERATIONS SPECIALIST [E 4]		13C10					NONE/
OPERATIONS SPECIALIST [E 3]		13C10					NONE/
OPERATIONS SPECIALIST [E 3]		13C10					NONE/

Exhibit 8-17. Bn TACFIRE Personnel Status (DS BN) --  
 FA Fire Direction Section Slide  
 Briefing Order: 15

TITLE: TACFIRE PERSONNEL STATUS (DS BN) 1/11 FA FIRE DIRECTION SECTION (15)

PURPOSE: Summarize which TACFIRE duty position incumbents have already gone to the appropriate school and which soldiers need to go to school in order to complete sustainment training; identify TACFIRE personnel diverted to other duty.

GENERAL COMMENTS:

- o The information about mandatory schooling, duty position, primary and secondary MOS, etc is available from the individual soldier data base.
- o Data on this slide are not reported on DA 2715.
- o This slide does not contain information which is regarded as sensitive.
- o This slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Position	Duty position, as called out in the Unit Manning Report, and the unit's MTOE; provide for the nine duty positions listed on the blank slide, plus two more unspecified slots.	20A
2. Grade	The grade associated with this duty position in the MTOE; use Army standard abbreviations as indicated on the attached blank slide.	3AN
3. Auth MOS	The Military Occupational Specialty authorized for this duty position, i.e. the so-called duty MOS or DMOS; copy the DMOS indicated for each one of the nine duty positions on the blank slide.	5AN
4. Rank	Rank of duty position incumbent; utilize the same set of rank abbreviations employed in Grade (item 3).	3AN
5. Name	Last name and first initial of duty position incumbent; vacant duty positions must be flagged.	15A
6. School Recom	The schooling recommended for this duty position; name of school and length of course must both be recorded.	10AN

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
7. School Att	The number of weeks of schooling actually completed by the duty position incumbent, using the same format as recommended schooling, e.g. 11 wk; NONE must be entered for an individual who has not attended the recommended school.	4AN
8. Remarks	Additional information of relevance to each duty position incumbent; used to flag soldiers with GT scores less than 100 (mandatory schooling required) and to indicate PMOS if different from DMOS.	10AN
**9. Summary Comments	Provision for additional remarks applicable to one or more groups of soldiers listed on this slide; note also diversions to non-TACFIRE duty.	200AN

DATA SOURCES AND SUPPORTING EXHIBITS:

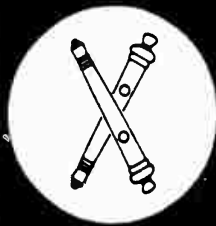
- o MTOE, as available on ATUTMS
- o Unit Manning Report, resident on ATUTMS.
- o Preformatted report on recommended schooling for DMOS.

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\*\* This is a supplemental item.



# TACFIRE PERSONNEL STATUS (DS BN) FA OPERATIONS / INTEL SECTION AS OF



(1) POSITION / GRADE	(2)	(3) MOS	(4) RANK / NAME	(5) SCHOOL REC / ATT (7)	(8) REMARKS
S3 [04]		13E00		6WK /	
ASST S3 [03]		13E00		11WK /	
S2 [03]		13E35		6WK /	
TARGETING OFF [03]		13E35		11WK /	
INTEL OFF [02]		35A00		6WK /	
OPERATIONS SGT [E8]		13Y50		6WK /	
INTEL SGT [E8]		13W50		6WK /	
TACFIRE OPS SPEC [E4]		13C10		NONE /	
TACFIRE OPS SPEC [E4]		13C10		NONE /	

## FA DIVERTED TACFIRE PERSONNEL (9)

NAME / RANK	MOS	TF SCHOOLING	CURR DUTY POSN
-------------	-----	--------------	----------------

Exhibit 8-18. Bn TACFIRE Personnel Status (DS BN) --  
FA Operations/Intel Section Slide  
Briefing Order: 1b

TITLE: TACFIRE PERSONNEL STATUS (DS BN) 1/11 FA OPERATIONS/INTEL SECTION (16)

PURPOSE: Summarize which TACFIRE duty position incumbents have already gone to the appropriate school and which soldiers need to go to school in order to complete sustainment training; identify TACFIRE personnel diverted to other duty.

GENERAL COMMENTS: identical to slide 15

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Position	See item 1, slide 15.	20A
2. Grade	See item 2, slide 15.	3AN
3. MOS	See item 3, slide 15.	5AN
4. Rank	See item 4, slide 15.	3AN
5. Name	See item 5, slide 15.	15A
6. School Rec	See item 6, slide 15.	10AN
7. School Att	See item 7, slide 15.	4AN
8. Remarks	See item 8, slide 15.	10AN
9. FA Diverted TACFIRE Personnel		
o Name	See item 5, slide 15.	15A
o Rank	See item 4, slide 15	3AN
o MOS	Primary MOS or DMOS when assigned to TACFIRE duty position.	
o TF Schooling (Attended)	See item 7, slide 15.	10AN
o Current Duty Posn	Non-TACFIRE duty position to which the soldier is currently assigned.	20A
*10. Summary Comments	See item 9, slide 15.	200AN

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Same as slide 15, plus
- o List of diverted personnel as reported on USR Personnel Worksheet.  
(see Appendix D.4)



# BRIGADE FIRE SUPPORT

AS OF



(1) POSITION / GRADE	(2)	(3) MOS	(4) (5) RANK / NAME	(6) SCHOOL RECOM / ATT (7)	(8) REMARKS
BRIGADE FSO (04)		13E5H		6WK /	
BRIGADE FS SGT (E7)		13F40X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FSO (03)		13E5H		6WK /	
FIRE SPT SGT (E7)		13F40X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FSO (03)		13E5H		6WK /	
FIRE SPT SGT (E7)		13F40X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FSO (03)		13E5H		6WK /	
FIRE SPT SGT (E7)		13F40X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	
FIRE SPT SPEC (E4)		13F10X3		6WK /	

Exhibit 8-19. Bn 1st Brigade Fire Support Slide  
Briefing Order: 17

TITLE: 1ST BRIGADE FIRE SUPPORT (17)

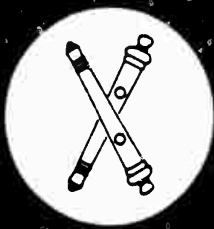
PURPOSE: Summarize which brigade fire support duty position incumbents have gone or should go to the appropriate school in order to complete sustainment training; note that the duty positions listed on slide 17 are a subset of positions identified on slides 15 and 16.

GENERAL COMMENTS: Identical to slide 15.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Position	See item 1, slide 15.	20A
2. Grade	See item 2, slide 15.	3AN
3. MOS	See item 3, slide 15.	5AN
4. Rank	See item 4, slide 15.	3AN
5. Name	See item 5, slide 15.	15A
6. School Recom	See item 6, slide 15.	10AN
7. School Att	See item 7, slide 15.	4AN
8. Remarks	See item 8, slide 15.	10AN
*9. Summary Comments	See item 9, slide 15.	200AN

DATA SOURCES AND SUPPORTING EXHIBITS: Identical to slide 15.



**CONFIDENTIAL (When filled in)** AS OF \_\_\_\_\_

[illegible]

**Exhibit 8-20. Bn Unit Combat Capability Slide Briefing Order: 18**

TITLE: UNIT COMBAT CAPABILITY (18)

PURPOSE: Characterize the combat capability of the unit in terms of the number of major weapons systems and crews available, and the training status of the crews.

GENERAL COMMENTS:

- o This slide is CONFIDENTIAL when filled in and must not, therefore, be computerized; however, specific items are accessible from the ATUTMS data base and can safely be made available via a preformatted query.
- o All of the data on this slide are factual except for the reasons offered for why the unit is not combat capable.
- o The information on this slide are not reported on form DA 2715.
- o This slide must be updated monthly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Unit	Identification of the subordinate elements which comprise this unit; for the battalion the subordinate units are batteries; for a battery, the subordinate units are sections; typical abbreviations would be BTRY A, SEC 6, etc.	6AN
2. Item	Identification of the weapons system of interest; for 1/11 FA this weapons system is the M198 howitzer.	8AN
3. Auth	The number of weapons authorized for each subordinate element by the current MTOE.	1N
4. Syst O/H	For each subordinate element, the number of weapons systems currently on hand; inoperable hardware is counted as "on hand"	1N
5. Crws O/H	For each subordinate element, the number of crews on hand to man the indicated weapons systems; understrength and/or unqualified crews are counted as "on hand".	1N
6. Syst not Manned	The number of weapons systems in each subordinate element which are on hand but not manned at all.	1N
7. UCC	The number of weapons systems in each subordinate element which are judged to be combat capable, i.e. manned by a full strength, fully trained crew.	1N

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
8. Reasons why unit is not UCC: crews unqual	For each subordinate unit, the number of non-combat-capable systems due to the crews not being fully trained.	1N
9. Reasons why unit is not UCC: crews under str	For each subordinate element, the number of non-combat capable systems due to the crews being understrength; <u>note</u> the number of combat-capable systems (item 7) plus the number of systems not manned (item 6), plus the two categories of not-combat-capable systems (items 8 and 9) must equal the number of systems on hand (item 4).	1N
(10. Totals)	Totals across all subordinate elements for items 3 through 9.	2N

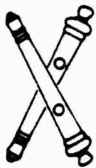
DATA SOURCES AND SUPPORTING EXHIBITS:

- o MTOE.
- o Unit Manning Report (linear organization chart version).
- o Preformatted collective training status reports for the unit in questions.

### 8.3.2 BATTERY SLIDES



# BTRY



(2)

(1)

## REQUIRED

**AUTHORIZED**

## ASSIGNED

**AVAILABLE**

**AVAILABLE/  
MOS TRAINED**

**% (4)**

**TOTAL(3)**

**E1-E4**

63-53

**WM**

OFFICER



## REQUIRED

**AUTHORIZED**

## ASSIGNED

**AVAILABLE**

**AVAILABLE/  
MOS TRAINED**

**TURNOVER (LOSSES, PAST 90 DAYS) <sup>(5)</sup>**

# NONDEPLOYABLE (6)

TITLE: PERSONNEL: BATTERY \_\_\_\_\_ (1)

PURPOSE: Summarize concisely aggregate personnel data for the indicated battery. Of particular interest are non-deployable personnel; turn-over; and a comparison of available MOS trained personnel with the number assigned; authorized by the MTOE, and required for the unit's assigned mission.

GENERAL COMMENTS:

- o The information on this slide is of the same sort as the information on the battalion PERSONNEL STATUS slide, and consequently must be protected against unauthorized access.
- o All of the information here is factual; no subjective judgments are involved.
- o This slide must be updated weekly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Personnel Counts	Each row of this slide is devoted to a different personnel count, as follows: <ul style="list-style-type: none"><li>- Required: needed to perform the unit's assigned mission.</li><li>- Authorized: permitted manning under current budget, as documented in the MTOE.</li><li>- Assigned: the number of personnel actually assigned to the unit.</li><li>- Available: assigned personnel, net of special duty and diversions to other units.</li><li>- Available/MOS Trained: a count of available personnel who are MOS trained for their current duty position; n.b. those assigned to special duty <u>within the unit</u> are excluded.</li></ul>	22A (2 lines)

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
2. Grade	Four categories of grade are reported:	
	- Officers	2N
	- Warrant officers	2N
	- Senior grade enlisted men (E5-E9)	2N
	- Junior grade enlisted men (E1-E4)	3N
3. Total	An aggregation of all the soldiers in each of the five personnel count categories (item 1).	3N
4. %	The total number of soldiers in each personnel count category, expressed as a percentage of the number in the preceding category; for example,  $\% \text{ Available} = \frac{\text{Total Available}}{\text{Total Assigned}} \times 100$ <p>0.1% precision is required; note that no percentage can be computed for "required".</p>	5N
5. Turnover	As indicated in the slide, turnover is computed in terms of soldiers lost during the previous ninety days, expressed as a percentage of the soldiers assigned to the unit ninety days ago; 0.1% precision is required.	4N
6. Non-Deployable	The number of individuals within the unit judged to be non-deployable by the unit commander.	4N
**7. Comments	Any brief annotations or explanations added by the unit commander.	200AN

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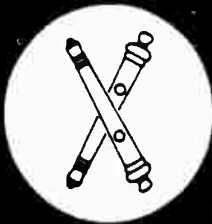
\*\* This is a supplemental item.

DATA SOURCES AND SUPPORTING EXHIBITS:

- o MTOE
- o Unit Skill Inventory Report
- o Daily Personnel Status Report
- o Unit Manning Report
- o Battle Roster
- o Historical plots of
  - Assigned
  - Available
  - Available/MOS Trained



# BTRY CRITICAL MOS



(1) MOS	(2) GRADE	(3) TITLE	(4) AUTH	(5) ASGN %	ALL GRADES	
					AUTH (6)	ASGN % (7) (8)

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## PERSONNEL TDY/SCHOOL/30 DAY LOSS

NAME (9)	MOS (10)	STATUS (11)

TITLE: CRITICAL MOS: BATTERY \_\_\_\_\_ (2)

PURPOSE: Highlight personnel shortages which are critical either because of low percent fill or because the duty position which is vacant severely impacts unit training and readiness; a secondary objective is to flag individuals who are not available because of temporary duty (TDY) at school or who will undergo a permanent change of station (PCS) within 30 days.

GENERAL COMMENTS:

- o This slide is generally very similar to the battalion slide titled CRITICAL SPECIALTY/MOS, but it adds additional detail by identifying individuals in critical duty positions that are now or soon will be vacant.
- o The information shown for each MOS or individual is factual; however the choice of which MOSs and soldiers to flag is very much subjective.
- o The information reported on this slide is not regarded as sensitive.
- o This slide must be updated monthly.

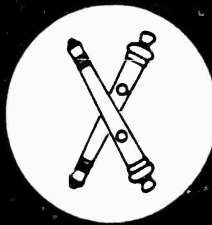
DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. MOS	Military occupational specialty.	5AN
2. Grade	Rank using the standard Army abbreviation, i.e., O_ for officers, WO_ for warrant officers, and E_ for enlisted men.	3AN
3. Title	Brief identification of the duty position(s) impacted.	10AN
4. Auth	The number of personnel authorized for this duty position by the current MTOE.	2N
5. Asgn/%	The number of personnel assigned, also expressed as a percentage of the number authorized (item 4); 0.1% precision is required for the percentage.	2N 4N
6. All Auth	The total number of personnel authorized for this MOS.	3N
7. Grades Asgn	The total number of personnel assigned for this MOS.	3N

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
8. Grades %	The total number of personnel assigned for this MOS, expressed as a percentage of the total assigned (item 7); 0.1% precision is required.  <u>Personnel/TDY/School/30 Day Loss:</u>	5N
9. Name	Rank and last name of each individual listed.	15AN
10. MOS	Primary MOS of this soldier.	5AN
11. Status	Brief remarks indicating why this individual is not now or will soon not be available for duty in this unit; typical entries are PNCOC, BNCOC, PCS, ETS, CH 13, TAMMS SCHOOL.	15AN

DATA SOURCES AND SUPPORTING EXHIBITS:

- o MTOE.
- o Unit Skill Inventory Report.
- o This slide for the previous 12 months.
- o Daily Personnel Status Report.
- o Unit's duty roster(s).



**BTRY**  
**NOT AVAILABLE**

[illegible]

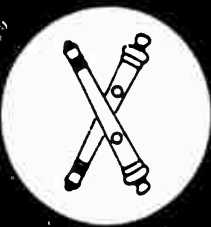
**Exhibit 8-23. Btry Not Available Slide Briefing Order: 3**

TITLE: NOT AVAILABLE: BATTERY \_\_\_\_\_ (3)

PURPOSE: For the battery indicated, provide a concise tabulation of personnel currently not available for duty; as a second objective indicate the percent turnover during the preceding three months.

GENERAL COMMENTS:

- o Except for minor differences this slide is identical to the battalion slide titled NOT AVAILABLE (slide 4). Differences are noted below:
  - Individuals who are currently not available are named on the battery slide.
  - An "x" is placed in the appropriate column, indicating why an individual is deemed unavailable.
  - The columns are totaled at the bottom of the slide; provision must also be made for a grand total.
  - No month-to-month comparison is required for the battery.
  - Turnover during the previous three months is obviously computed for the battery as a whole.
- o Accordingly, no definitions or supporting exhibits are given for this slide; please refer to the battalion slide titled NOT AVAILABLE.
- o This slide must be updated weekly.



# BTRY SD-DIVERIONS

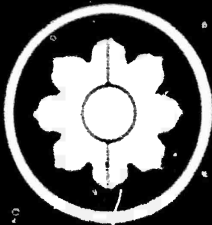
Exhibit 9-24. Btry SD-Diversions Slide Briefing Order: 4

TITLE: SD-DIVERSIONS: BATTERY \_\_\_\_\_ (4)

PURPOSE: For the battery indicated, summarize concisely the impact of special duty and other diversions.

GENERAL COMMENTS:

- o Except for minor differences this slide is identical to the battalion slide titled SD-DIVERSIONS (Slide 5). Differences are noted below:
  - Individuals who are currently assigned to special duty are named on the battery slide.
  - An "x" is placed in the appropriate column, indicating the type of special duty which has been assigned.
  - The columns are totaled at the bottom of the slide; provision must also be made for a grand total.
  - In contrast to the battalion slide, the battery slide lists the number of personnel required, authorized, and assigned to the slot currently filled by the soldier assigned to special duty; n.b. this information will typically not be available on the MTOE.
- o Accordingly, no definitions or supporting exhibits are given for this slide; please refer to the battalion slide titled SD-DIVERSIONS.
- o This slide must be updated weekly.



# **BTRY PLL STATUS**



TOTAL LINES (1)

( )

ZERO BAL (2)

( )

% ZERO BAL  
LINES (3)

( )

EQUIP DL  
DUE TO  
ZERO BAL (4)

( )

## LOGISTICS

ES (5)

( )

ER (6)

( )

PIES (7)

( )

PIER (8)

( )

( ) PREVIOUS MONTH

TITLE: PLL STATUS: BATTERY \_\_\_\_\_ (5)

PURPOSE: Summarize concisely the status of the unit's Prescribed Load List (PLL) and its impact upon deadlined (inoperable) equipment; also summarize the status and readiness of pacer items and ERC-A equipment in the aggregate.

GENERAL COMMENTS:

- o This slide assembles the information aggregated by the battalion slides titled LOGISTICS and PLL STATUS; however equipment status and readiness are described solely in terms of percentages as opposed to both the REDCONS and percentages used on the battalion slide.
- o Current status is described by data entered in boxes on the slide; previous month's status, by data in brackets.
- o Although not marked CONFIDENTIAL, the information on this slide is quite sensitive and must be protected from unauthorized access.
- o This slide must be updated daily.

DEFINITIONS: (Refer to battalion slides 6 and 7 for detailed definitions).

Prescribed Load List:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
1. Total Lines	Total lines in the unit's current PLL	3N
2. Total Lines Zero Balance	The number of PLL items which are currently out of stock in this unit.	3N
3. Total Lines % Zero Balance	The number of PLL zero balance lines (item 2) expressed as a percent of total lines (item 2); 0.1% precision is required.	5N
4. Equip DL due to O-Balance	The number of pieces of ERC-A equipment that is deadlined (inoperable) because of out-of-stock PLL items.	3N

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
<u>Logistics: (report percentages only; no REDCON values are required:</u>		
5. ES	Equipment status; see item 1, battalion slide 6.	5N
6. ER	Equipment readiness; see item 2, battalion slide 6.	5N
7. PIES	Pacing item equipment status; see item 3, battalion slide 6.	5N
8. PIER	Pacing item equipment readiness; see item 4, battalion slide 6.	5N

DATA SOURCES AND SUPPORTING EXHIBITS: Identical to battalion slides 6 and 7.



# BTRY TRAINING



	TOTAL	QUAL	UNQUAL	% QUAL
INDIV WPNS (1)				
M60 (2)				
M2 (3)				
INDIV NBC (4)				
NBC TMS (5)				
APFT (6)				
LAST ARTEP (7)				
LAST EDRE (8)				

## ZEROED ELEMENTS

TYPE ELEMENT (9)	# ZEROED (10)	EQUIP ZEROED (11)
------------------	---------------	-------------------


TITLE: TRAINING: BATTERY \_\_\_\_\_ (6)

PURPOSE: Concisely summarize the training status of battery ARTEP and EDRE exercises, the unit's marksmanship with individual and crew-served weapons, physical fitness training, and the status of nuclear-biological and chemical training at both the individual and unit level; zeroed elements (inoperable) are also identified.

GENERAL COMMENTS:

- o This slide presents information very similar to that reported on the battalion TRAINING STATUS slide; however, unlike the battalion slide, the battery slide presents mostly factual data -- numbers or percentages.
- o Although this slide is not labeled CONFIDENTIAL, the information contained is quite sensitive and must be protected from unauthorized access.
- o This slide must be updated weekly.

DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
<u>Mandatory Training Items:</u>		
1. Indiv Wpns	Training status on individual weapons reported in terms of the following statistics: <ul style="list-style-type: none"><li>- TOTAL: Total number of soldiers subject to individual weapons qualification (total no. in unit less those exempt).</li><li>- QUAL: Total number of soldiers qualified.</li><li>- UNQUAL: Number of unqualified soldiers.</li><li>- % QUAL: Number of qualified soldiers expressed as a percentage of total number subject to training on this item; 0.1% precision is required.</li></ul>	3N 3N 3N 5N
2. M60	Training status on the M60 machine gun, a crew served weapon; statistics are the same as for item 1.	same as item 1

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
3. M2	Training status on the M2 machine gun, a crew served weapon; statistics are the same as for item 1.	same as item 1
4. Indiv NBC	Status of individual NBC training; statistics are the same as for item 1.	same as item 1
5. NBC Tms	Status of the training of NBC teams; coded as green (fully trained), yellow (partially trained), or red (untrained).	1A
6. APFT	Status of Army Physical Fitness Training for individual soldiers; statistics are the same as for item 1.	same as item 1
7. Last ARTEP	Date of last battery ARTEP, in standard ATUTMS format: YY.MM.	5AN
8. Last EDRE	Date of last battery Emergency Deployment Readiness Exercise, in standard ATUTMS format: YY.MM.	5AN

Zeroed Elements:

9. Type Element	Abbreviated title of the subunit or function that is currently not operable.	15AN
10. # Zeroed	Number of units that are currently inoperable.	2N
11. Equip Zeroed	Abbreviated description of deadlined equipment which is a primary cause of the zeroed elements identified in items 9 and 10.	15AN

DATA SOURCES AND SUPPORTING EXHIBITS:

- o Preformatted reports of battery ARTEP training.
- o Preformatted battery report on mandatory individual training.
- o Preformatted battery report on team training.



**BTRY  
PLL/TAMMS CERTIFICATION**

(1)	(2) CERTIFIED SCORE/DATE	(3) QUALIFIED SCORE/DATE	(4) NOT QUALIFIED	(5) NAME (S)	LICENSED DRIVERS			(10) % LICENSED
					(7) VEH O/H	(8) TOTAL ASN DRIVERS	(9) TOTAL LICENSED DRIVERS	
{	CLERKS (TAMMS)							
	(PLL)							
	BTRY MTR OFF							
	BTRY MTR SGT							
	OTHER							
{	(6)	1/4 T						
		5/4 T (GOAT)						
		5/4 T M880						
		2 1/2 T						
		5 T						

TITLE: PLL/TAMMS CERTIFICATION: BATTERY \_\_\_\_\_ (7)

PURPOSE: Summarize the training status of the battery's PLL and TAMMS personnel, in light of the test scores recorded for the most recent evaluations; identify drivers licensed to operate frequently used vehicles.

GENERAL COMMENTS:

- o The data reported on this slide are very similar to the data contained in the battalion slide titled PLL TAMMS CERTIFICATION, except for the addition to the battery slide of information about licensed drivers.
- o The data on this slide are not regarded as sensitive.
- o This slide must be updated monthly.

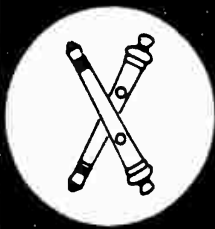
DEFINITIONS:

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
<u>PLL/TAMMS Personnel:</u>		
1. (Duty Position)	Five distinct duty positions are identified:  TAMMS CLERK  PLL CLERK  BATTERY MOTOR OFFICER  BATTERY MOTOR SERGEANT  OTHER: _____ (specify)  Refer to the blank slide for preferred abbreviations.	15A each line
2. Certified Score/Date	Examination score and data qualifying an individual as "certified", score must be 90% or better; specifications follow:  Score: 0.1% precision required  Date: format is YY.MM	5N  5AN
3. Qualified Score/Date	Examination score and date qualifying an individual as "qualified"; score must be from 89 to 90%; same specifications as Item 2.	same as Item 2

<u>Item</u>	<u>Comments</u>	<u>Estimated Characters</u>
4. Not Qualified	Identification by means of an "X" of individuals who are neither "qualified" nor "certified".	1A
5. Name(s)	Rank and last name of the individual(s) occupying the duty positions identified in Item 1.	
<u>Licensed Drivers:</u>		
(6. Vehicle Type)	Abbreviated identification of five commonly used vehicle types; each is labeled by its nominal carrying capacity in tons. Refer to blank slide for preferred abbreviations.	15AN each line
7. VEH O/H	Number of vehicles of this type that are currently on hand.	2N each line
8. Total Asgn Drivers	Total number of soldiers who are assigned (but not necessarily licensed) to drive this type of vehicle.	2N each line
9. Total Licensed Drivers	Total number of soldiers who are licensed (but not necessarily assigned) to drive this type of vehicle.	2N each line
10. % Licensed	Number of assigned drivers who are also licensed to operate this type of vehicle, expressed as a percentage; if number of licensed drivers equals or exceeds number of assigned drivers this percentage is assumed to be 100; 0.1% precision is required.	5N each line

DATA SOURCES AND SUPPORTING EXHIBITS:

Unit Skills Inventory Report.



**CONFIDENTIAL** (When filled in) AS OF \_\_\_\_\_

[illegible]

**Exhibit 8-28. Battery Unit Combat Capability Slide.**

TITLE: UNIT COMBAT CAPABILITY: BATTERY \_\_\_\_ (8)

PURPOSE: For the battery indicated, characterize the combat capability in terms of the number of major weapons systems and crews available, and the training status of the crews.

GENERAL COMMENTS:

This slide is identical to the battalion slide having the same title. Please refer to the battalion slide for all definitions, supporting exhibits, and comments about handling the information contained in the slide.

#### 8.4 MODIFIED TABLE OF ORGANIZATION AND EQUIPMENT (MTOE)

The MTOE is invaluable to operations planning because it is an integrated, comprehensive picture of unit assets. The MTOE currently applicable to the 1/11 FA (the host unit) is presented in Appendix E, together with a definition of common terms which are likely to be unfamiliar to the system designer. Phase I ATUTMS shall contain this MTOE as it appears in Appendix E. Following access to the MTOE via the "MTOE" command of the main menu specified in Exhibit 8-2, the user must select from the MTOE menu of Exhibit 8-29.

##### Exhibit 8-29. MTOE Menu

Note: All commands are view only; no editing or data entry is permitted.

- o REGULATIONS AND OVERVIEW: pp. E-1 to E-4, including "Section I: Organization".
- o DETAILED PERSONNEL ALLOWANCE: pp. E-5 to E-13, titled "Section II Personnel Allowance"; information in this section shall also be accessible by paragraph number if known to user.
- o PERSONNEL RECAPITULATION: pp. E-14 to E-17, titled "Recapitulation by Identity, and Recapitulation by Grade, MOS, ASI/LIC, and Branch"; a subset of this summary shall be accessible by specifying the Army Grade; e.g., 04, E2, WO.
- o DETAILED EQUIPMENT ALLOWANCE: pp. E-18 to E-37, titled "Section III Equipment Allowance"; information in this section shall also be accessible by paragraph number if known to user.
- o EQUIPMENT RECAPITULATION: pp. E-37 to E-42, titled "Equipment Recapitulation"; ERC A, B, and C subsets shall be separately accessible by the user; it is desirable that individual items be accessible by specifying the first three letters of the MTOE Description.
- o BATCH ANALYSIS REPORT: pp. E-43 to E-45, titled "Batch Analysis Report, Part IV Personnel and Equipment Analysis".

Note the use of MTOE paragraph and line no. to identify equipment contained in training or logistic files. Definition of MTOE records and data fields is described in the ATUTMS design document. ATUTMS shall be designed to accept a new MTOE in the standard computer compatible format available to a unit from FORSCOM.

## SECTION 9

### CONCLUDING COMMENTS

This document contains user requirements for a computer-based information system to support training management in a representative combat battalion. Designated as the Advanced Technology Unit Training Management System (ATUTMS), the system described in this document will soon be demonstrated in prototype form in the 1/11 FA at Fort Lewis, Washington. Many sources were consulted in assembling these requirements, with significant inputs from ARI, the ADEA staff at Fort Lewis, and the personnel of the 1/11 FA. In its initial application, the system will be limited to garrison operation. However, much training occurs during extended periods in the field, and so these requirements provide for basic capabilities which will permit the system to function effectively in a field environment.

Training management impacts all asset management areas. Thus, it was necessary to define a system scope which incorporated information about personnel and logistics necessary to meet ATUTMS training management objectives. This information was limited to soldier data directly relevant to Army skills and responsibilities; the unit manning report, together with a summary of daily personnel status; the current status of the prescribed load list (PLL); and a summary of materiel readiness, as described in DA form 2406. Because training has such a large and obvious impact upon unit readiness, it was decided to include a unit status summary containing information similar to form DA 2715. In consequence, the system concept which evolved has many of the elements of an integrated, battalion level management information system.

In the asset management areas, the requirements are predicated upon the automation of existing forms and procedures. Requirements in training begin with the automation of unit training schedules, then go on to specify new data input forms and reports needed to monitor and assess ARTEP training, the training of special teams, MOS training, and the status of mandatory individual skills. Once the system has been implemented, these new training applications should be carefully examined to determine their responsiveness to the needs of training managers.

Like most requirements documents, this one presents both what the user needs and how these needs should be met. It is inevitable that these requirements will be modified in the course of translating the recommended specifications into software and then modifying the software in light of the user's experience with the system. In sum, these requirements are intended to be a guide to system development and should be used in that spirit.

APPENDIX A  
PERSONNEL REPORTS

DA 2475-2 Personnel Data - SIDPERS

DA 2 Personnel Qualification Record

DA 2-1 Personnel Qualification Record-Part II

DA 3813 SIDPERS Input and Control Data

SIDPERS Personnel Transaction Register

SIDPERS Personnel Transaction Summary

HFL 904-DG3

Unit Manning Report

MOS Shortage by Grade

## APPENDICES

- A. PERSONNEL REPORTS
- B. LOGISTICS REPORTS
- C. SUMMARY OF ARMY REGULATION 220-1: UNIT STATUS REPORTING
- D. GUIDELINES FOR CHARACTERIZATION OF UNIT STATUS
- E. MODIFIED TABLE OF ORGANIZATION AND EQUIPMENT FOR 1/11 FA BN

A-00

# PERSONNEL DATA - SIDPERS

For use of this form, see AR 600-1; the proponent agency is MILPERCEN.

## DATA REQUIRED BY THE PRIVACY ACT

**AUTHORITY:** Title 5, United States Code, Section 301.  
**PRINCIPAL PURPOSE(S):** a. Permanent historical and legal document pertaining to the individual shown thereon during the period of assignment/attachment with a specific unit.  
 b. Is the replacement document for the Morning Report (DA Form 1) for unit supported by the Standard Installation Division Personnel System (SIDPERS).  
**ROUTINE USES:** a. Provide unit/PAC clerk with personnel information which, in conjunction with appropriate source documents enable the unit/PAC clerk to prepare SIDPERS change reports to update field and HQDA data base.  
 b. Recording of this change data on the reverse side Part II to provide an audit trail of incidents/occurrences.  
 c. Reconcile assigned/attached strength of the unit against rosters, unit manning reports and other strength related documents.  
 d. Recording of other personnel management data not otherwise shown elsewhere; e.g., local address, phone number for emergency and alert purposes.  
 e. May be used as a substitute for the Personnel Action, DA Form 4187 as an evidentiary document in court-martial proceedings.  
**DISCLOSURE:** Mandatory disclosure of local address, telephone number, and name and address of next-of-kin is required for emergency notification. Failure to disclose these data could result in delayed notification of emergency to the soldier and/or next-of-kin.

## PART I

<b>ORGANIZATION (UPC)</b> 1PBAA			
<b>UNIT/STATION</b> COA 5TH MAINT BN FT DEFENSE VA 22332			
<b>1. NAME (Last, first, middle)</b> DOE JOHN WILLIAM JR.		<b>2. SSN</b> 000-00-0000	<b>3. GRADE &amp; PAY GRADE</b> SP5 E-5
<b>4. DUTY ASSIGNMENT</b> PAC CLERK		<b>5. DUTY PHONE NUMBER</b> 58690	<b>6. BLOOD TYPE</b> ATOS
<b>7. LOCAL ADDRESS (Include ZIP Code)</b> 123 MAIN ST. NEWTON VA 22310		<b>8. LOCAL PHONE NO.</b> 703 000-0000	
<b>9. NEXT OF KIN (Name and address) (Include ZIP Code)</b> MRS MARY L. DOE (WIFE) 123 MAIN ST NEWTON VA 22310		<b>10. HOME OF RECORD</b> LYNN MA	
<b>11. PLACE OF BIRTH</b> BOSTON MASSACHUSETTS		<b>12. HIGHEST AWARD(S)</b> SILVER STAR CIB	
<b>13. SGT PRIMARY (Score and date)</b> (75B) 98 JUN 80		<b>14. SGT SECONDARY (Score and date)</b> (71L) 82 FEB 81	
<b>15.</b>	<b>16.</b>	<b>17.</b>	<b>18.</b>

**REMARKS** SEP RATS AUTH 15 JAN 81  
 APPLICATION FOR OCS FWD 3 APR 81  
 ADDRESS OF UNIT OF ASSIGNMENT -  
 ATTACHED PERSONNEL ONLY  
 GO B 703 MAINT CO FT BLANK WI 46609

SAMPLE ENTRIES

## COMMANDER'S OR AUTHORIZED REPRESENTATIVE'S GRADE, NAME AND INITIALS

GRADE	NAME	INITIALS	GRADE	NAME	INITIALS
CPT	BERNARD J. SMITH	BJS	CPT	LEO P. WEBB	LPW
1SG	GERALD T. BROWN	GTB	SSG	PAULA S. JONES	PSJ
CPT	DEAN W. MATHEWS	DWM			
1LT	RICHARD O. WILLIAMS	ROW			

## CERTIFICATE

I certify that the initials appearing above opposite the name and on the reverse side of this form are those of myself as Commander/ designated PAC representative or my authorized representative. I further certify that the entry on the reverse side is initialed to a true statement as pertains to the individual indicated above for the reporting period.

COMMANDER	TENURE DATES	COMMANDER	TENURE DATES
NOT USED			
COMMANDER	TENURE DATES	COMMANDER	TENURE DATES
COMMANDER	TENURE DATES	COMMANDER	TENURE DATES

DA FORM 2475-2  
 1 OCT 77

NAME		SSN				
REPORTING TRANSACTION			PART II	DISPOSITION		
DATE REPORTED	ACTION REPORTED	EFFECTIVE DATE	INITIALS	CYCLE/DATE	NOTE 1/ P U	REMARKS
790223	ASNY 790222/CH5AA/ BADAQ/AL9124/E45.	790222	102	BD790225	X	
EXAMPLE #1 - ASSIGNED-NOT JOINED TRANSACTION						
790226	ARR 790225/CH5AA/ BADAQ/AL9124/E45.	790225	102	BE 790228	X	
790226	ATCH 790225/CH5AA/ BADAQ/E45.	790225	102	BE 790228	X	
EXAMPLES #2 AND #3 - ARRIVAL AND ATTACHED TRANSACTIONS						
790226	ARR 790228/CH5AA/ BADAQ/AL9124/E45.	790225	102	BE 790228	X	BE 790221/ARR DT
790301	ARR 790225/CH5AA/ BADAQ/AL9124/E45.	790225	102	CA 790302	X	
EXAMPLE #4 - RESUBMISSION OF AN UNPROCESSED TRANSACTION						
790305	DYST PDY/MOS/0750.	790304	102	CB 790306	X	
EXAMPLE #5 - DUTY STATUS CHANGE TRANSACTION						
790328	RATH/BADAQ/CH5AA.	790327	102	CH 790329	X	
EXAMPLE #6 - RELIEVED FROM ATTACHMENT TRANSACTION						
790402	DYST AWL/PDY/1500.	790401	102	DB 790403	X	
EXAMPLE #7 - DUTY STATUS CHANGE OF AMOL TO PRESENT FOR DUTY						
790519	DEF 7941/BADAC.	790518	102	FE 790521	X	
EXAMPLE #8 - DROPPED FROM THE ROLLS DUE TO AMOL						

NOTE: The blank lines in between the entries above are for illustration purposes only. Entries will be made on each line of the form.

DA Form 2475-2 (continued)

PERSONNEL QUALIFICATION RECORD - PAUL







SECTION VII - CURRENT AND PREVIOUS ASSIGNMENTS									
RECORD OF ASSIGNMENTS									
EFFECTIVE DATE	DUTY MOSC	PRINCIPAL DUTY	ORGANIZATION AND STATION OR OVERSEA COUNTRY	NON-DUTY DATE UP 10/10	NON-DUTY DATE DOWN 10/10	TYPE REPORT			
671202			USA REGSTA (65-3197) Ft Jackson, SC						
671210	09B00	BCT	Co C, 2d Bn, 1st Tng Bde, Ft Jackson						
680218	11B10	AIT	Co A, 1st Bn, 3d Tng Bde, Ft Jackson, SC						
680320		Casual	Enroute to Ft Benning, GA						
680328		Basic Airborne	1st Co, 4th Stu Bn, TSB, Ft Benning, GA						
680519		Casual	Enroute to USAREUR						
680701	11B10	Rifleman	Co A, 3d Bn, 16th Inf						
680921	11B20	Auto Rifleman	Co A, 3d Bn, 16th Inf						
690303		Casual	Enroute to Berlin Bde						
690305	11B20	Team Leader	Co B, 3d Bn, 6th Inf, Berlin						
690421	11B40	Squad Leader	Co B, 3d Bn, 6th Inf, Berlin						
700616		Casual	Enroute to Quantico, VA						
700809	11B4H	Instructor/Counselor Dept	Quantico Marine Base, Quantico, VA						
710728		Casual	Enroute to USARPAC						
710728	11B4P	Squad Leader	Co D, 4th Bn, 503-173d Abn Bde						
710804	11B4P	Squad Leader	Co D, 4th Bn, 503-173d Abn Bde						
720110	11B4P	Opn Sgt	HHC, 4th Bn, 503-173d Abn Bde						
720901		Casual	Enroute to Ft Ellicott, MD						
721010	11B4H	Instructor/Counselor Dept	Hq, Ft Ellicott, MD						

[illegible]

DA FORM 3013 (7-80), 1 MAR 80

REPLACES DA FORM 3612, 1 SEP 70 WHICH IS OBSOLETE





EXAMPLE OF PERSONNEL TRANSACTION REGISTER BY ORIGINATOR AAC-P11

TRANSACTIONS UNPROCESSED

740605UTSTBZUAJ016401815\$0LY/POT/2240/740604/ARZAAA/1.	C-Compatibility Error CWS (1)
BZUA ED16401835V SP5 R 741025 12830 L	A MOS 740416 (3)
740604UTSTOLUE 423744227\$POT/405/1445/740603/ARZAAA.	CDYS
BLUE E423744227V PVI R 3 750919 12820 L	A AML 740515 (4)
740509ABR BILL 416702265\$740508/NDZBEN/ARZAAA/AL82/EQ2.	CLUC (2)
BILL E416702265 SP4 R 770501 12820	Y PDG (5)
740501ABR HOPR12217631\$740430/NDZBEN/ARZAAA/AP19/E92.	E-Essential Validity Error (E999) (6)

(1) Incompatible Duty Status	(4) AMOL
(2) Invalid Loading Unit Processing Code	(5) Pending Cash
(3) Hospital	(6) Social Security Number Not
	Equal to.

Filled in SIDFERS Transaction Register



# DAILY PERSONNEL STATUS REPORT

78

☐ COMMANDER \_\_\_\_\_  
☐ COMMANDER \_\_\_\_\_  
☐ C3 TRAINING \_\_\_\_\_  
☐ C3 \_\_\_\_\_  
☐ FIRST SERGEANT (INFO/FILE) \_\_\_\_\_

DATE \_\_\_\_\_  
(DAY, MONTH, YEAR)

TRAINING CYCLE \_\_\_\_\_

CYCLE PERIOD \_\_\_\_\_

DUTY \_\_\_\_\_

A. STRENGTH:	OFFICER	WARRANT	ENLISTED	DETAILED ADDITIONAL INFORMATION INDICATE EMPLOYMENT AND LIST REQUIRED INFORMATION ON HEAD OF THIS FORM
1. ASSIGNED				
2. ATTACHED				LIST NAME(S) OF PERSON ON DUTY ON HEAD OF THIS FORM
3. DETACHED				LIST NAME(S) AND DUTY TO WHICH INDIVIDUAL IS ATTACHED ON HEAD OF THIS FORM
4. TOTAL				AGGREGATE TOTAL

B. ABSENT FROM DUTY:	OFFICER	WARRANT	ENLISTED	DETAILED ADDITIONAL INFORMATION INDICATE EMPLOYMENT AND LIST REQUIRED INFORMATION ON HEAD OF THIS FORM
1. LEAVE				LIST NAME(S) AND INCLUDE DATES OF LEAVE ON HEAD OF THIS FORM
2. TDY				LIST NAME(S), TDY LOCATION INCLUDE DATES AND PURPOSE OF TDY ON HEAD OF THIS FORM
3. APOB				LIST NAME(S) AND DATE TIME GROUP ON HEAD OF THIS FORM
4. CONFINEMENT				LIST NAME(S) DATE, TIME GROUP AND SPOUSE (SPOUSE) ON HEAD OF THIS FORM
5. HOSPITAL				LIST NAME(S) DATE, REASON AND SPOUSE LOCATION ON HEAD OF THIS FORM
6. ON SCHOOLS				LIST NAME(S) SCHOOL AND PLANS NUMBER AND INCLUDE DATES ON HEAD OF THIS FORM
7. QUARTERS				LIST NAME(S) AND LOCATION OF QUARTERS PLACED ON HEAD OF THIS FORM
8. IN EXTERNAL				LIST NAME(S) DATE IN EXTERNAL AND IN LOCATION ON HEAD OF THIS FORM
9. PASS				LIST NAME(S) LOCATION OF PASS PERIOD AND PURPOSE ON HEAD OF THIS FORM
10. TOTAL				AGGREGATE TOTAL

C. PRESENT FOR DUTY:	OFFICER	WARRANT	ENLISTED	COMPUTE BY SUBTRACTING LINE B TO TOTALS FROM LINE A-TOTALS
				AGGREGATE TOTAL

D. ABSENT FROM TRAINING:	OFFICER	WARRANT	ENLISTED	DETAILED ADDITIONAL INFORMATION INDICATE EMPLOYMENT AND LIST REQUIRED INFORMATION ON HEAD OF THIS FORM
1. DUTY DUTY				LIST NAME(S) AND SPOUSE TYPE OF DUTY ON HEAD OF THIS FORM
2. IN/DUTY PERIOD				LIST NAME(S) AND SPOUSE DUTYED IN OR OUT PERIODS ON HEAD OF THIS FORM
3. DETAIL				LIST NAME(S) AND SPOUSE DETAIL ON HEAD OF THIS FORM
4. COAST				LIST NAME(S) AND COAST LOCATION ON HEAD OF THIS FORM
5. CR				LIST NAME(S) OF PERSONNEL COMMITTED TO CR DURING NORMAL DUTY TRAINING PERIODS ON HEAD OF THIS FORM
6. APPOINTMENT				LIST NAME(S) TIME OF APPOINTMENT AND PURPOSE ON HEAD OF THIS FORM
7. SICK CALL				LIST NAME(S) ON HEAD OF THIS FORM
8. DND				LIST NAME(S) AND CYCLE PERIOD ON HEAD OF THIS FORM
9. IN INTERNAL				LIST NAME(S), DATE IN EXTERNAL AND IN LOCATION ON HEAD OF THIS FORM
10. TOTAL				AGGREGATE TOTAL

E. PRESENT FOR TRAINING:	OFFICER	WARRANT	ENLISTED	DETAILED ADDITIONAL INFORMATION INDICATE EMPLOYMENT AND LIST REQUIRED INFORMATION ON HEAD OF THIS FORM
1. ONLINE				COMPUTE BY SUBTRACTING LINE D TO TOTALS FROM LINE E-TOTALS
2. IN DND AND RECALL				LIST NAME(S), DATE IN EXTERNAL AND PLANS PERIOD DUTY ON HEAD OF THIS FORM
3. TOTAL				AGGREGATE TOTAL

SIGNATURE OF COMMANDER OR  
 DESIGNATED REPRESENTATIVE

HFL FORM 904-DG3  
 1 Aug 73

A-13



# EXLISTED MOS SHORTAGE BY GRADE - AS OF 13 July 1983

MOS	E3		E4		E5		E6		E7		E8		E9		ALL GRADES		
	REQD-AUTH-ASGD		REQD-AUTH-ASGD		REQD-ASGD		REQD-ASGD		REQD-ASGD		REQD-ASGD		REQD-ASGD		REQD-AUTH-ASGD		
00Z													1	1	1	1	
05C	2	1	0	2	2	2	1	1					7	6	5		
13B	151	126	157	88	21	35	21	14	7	8			288	260	257		
13C	2	2	3	3	2	1	2	2	1	1			10	10	8		
13E	6	6	13	6	3	3	3	1	0	0			18	18	26		
13F	27	27	30	20	30	15	9	8	4	3			90	90	77		
13W											0	0	1	1	0		
13Y											6	1	6	6	1		
17C				1	0	0					1	0	1	0	0		
31V	5	4	2	0	2	1	4	3					12	11	6		
36K	16	11	6	14	4	2							34	27	24		
44B	0	0	0	1	4	1	1	1					1	1	0		
54E				0	4	1	1	1					5	5	3		
63B	9	9	5	10	7	2	5	3	1	0			32	31	20		
71D					1	1							1	1	1		
71L	0	0	2	3	0	0							3	3	3		
75B	2	1	1	1	1	0	1	0					5	4	2		
75Z							1	0	1	0			2	2	0		
76C	0	0	3	11	11	5							11	11	8		
76W	2	2	0										2	2	0		
76Y	2	0	2	7	7	6	5	3	1	0			16	14	8		
79D							1	0					1	1	0		
82C	3	3	4	2	2	2	1	2	1	1			9	9	13		
91B	2	1	4	5	1	1	1	0					9	7	6		
91C				0	0	0	1	0					1	1	0		
94B	5	2	2	9	5	3	5	3	1	1			25	19	12		
96B				0	1		1	0					1	1	1		
TOTAL	234	195	209	183	172	150	86	70	62	43	17	14	8	1	591	541	485

REMARKS: OSB E-5 SPILLMAN  
63Y E-5 BAKER  
45D E-3 COLPE  
11B E-8 MOINETTE  
75C E-6 CUNNINGHAM

TOTAL 490

APPENDIX B  
LOGISTICS REPORTS

DLOGS Property Book Roll-Up  
DA 2062 Hand Receipt  
DA 2064 Document Register for Supply Actions  
DA 2063-R Prescribed Load List  
DD 314 Preventive Maintenance Schedule and Record  
DA 2408-20 Oil Analysis Log  
DA 2406 Materiel Condition Status Report  
DA 2401 Organizational Control Record

BATTALION DNG PROPERTY BOOK ROLL-UP

PROPERTY IN - 13.6

LINE NO SQUAD UIC MAT STOCK NUM UI REV AUTM ON MO D/TM RIC/ERC/PAC DESCRIPTION LC/SI/SC/AG UNIT PRICE DOCUMENT NUMB STAT

A2498 DGLT 129011.67.637 EA 1 1 1 / AIMING CIRCLE M242 A/4/U/Q 1300.00 W68W1P-30491039

100.0 PERCENT FILL TOTALS 10 10 13 1 ON MO 3 OVER

A2499 DGLAU 6665009356955 EA 2 2 2 2 1/8/ ALARM CHEM AGT M8 8/4/U/Q 2450.00 W68W1K-30491051  
W68W1K-31631725

DGLT 8883009358955 EA 2 2 2 2 1/8/ ALARM CHEM AGT M8 8/4/U/Q 2450.00 W68W1L-22091030 80

DGLCO 8883009358955 EA 2 2 2 2 1/8/ ALARM CHEM AGT M8 8/4/U/Q 2450.00 W68W1K-30541071  
W68W1M-30491052

DGLSO 6665009356955 EA 2 2 2 3 1/8/ ALARM CHEM AGT M8 8/4/U/Q 2450.00

DGLTO 6665009356955 EA 2 2 2 3 1/8/ ALARM CHEM AGT M8 8/4/U/Q 2450.00 W68W1P-22091019

100.0 PERCENT FILL TOTALS 10 10 31 12 4 ON MO 1 OVER DUE-IN FILE QUANTITY OVER

568 2nd DGLAO 6665001691492 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3540.00

2nd DGLBO 6665001691492 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3540.00

2nd DGLCO 6665001691492 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3540.00

2nd DGLSO 6665001691492 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3540.00

2nd DGLTO 6665001691492 EA 1 1 1 1/8/ ALARM CML AGT M16 A/4/U/Q 3540.00

TOTALS 1 1 ON MO 1 SHORT

A2571 2nd DGLAO 6665001691494 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3535.00

2nd DGLBO 6665001691494 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3535.00

2nd DGLCO 6665001691494 EA EXCESS 1 / / ALARM CML AGT M16 A/4/U/Q 3535.00

2nd DGLTO 6665001691494 EA 1 1 1/8/ ALARM CML AGT M16 A/4/U/Q 3535.00

TOTALS 1

A2575 2nd DGLAO 6665001691494 EA EXCESS 2 / / ALARM CML AGT M16 A/4/U/Q 287.00

TOTALS

DLOGS Property Book Roll-up

EDITION OF JAN 22 IS OBSOLETE.

PAGE 16 OF 16 PAGE 17

B-2

DOCUMENT REGISTER FOR SUPPLY ACTIONS				SUBJECT MATTER THIS REGISTER		BUS ACTIVITY ADDRESS CODE		UNIT IDENTIFICATION CODE		PAGE NUMBER			
For use of this form, see DA FORM 710-3-1. The processing agency is ODCSLOG.				1-651 Arty Bn Property Book Section		WRYABC		WYB WYB		33			
DOCUMENT NUMBER		DECLARATION DATE TO	STOCK NUMBER	REMARKS	REMARKS FOR	TO	TOTALS	QUANTITY			DATE FOLLOW-UP DATE	DATE COMPLETED	REMARKS
DATE	REMARKS							REMARKS	REMARKS	REMARKS			
a	b	c	d	e	f	g	h	i	j	k	l	m	n
3161	0001	TYZ	3230-00-177-9252	1/2 d/12	NR3	03	THW	3	1	1	SD	3201	
3161	0002			20R								3161	
3161	0003	3234 B-		lateral frame for								3161	
3165	0001	TYZ	1005-00-078-9401	R.F.10					1			3165	
3166	0003	TYZ	1005-00-078-9401	R.F.20	NR1	06	CTW	1	1			3166	
3173	0001	FRAMING		S/C	NR3							3173	
3173	0003	TYZ	6205-00-896-7618	COMPRESS	NR3	15		1		1	SD	3197	
3173	0003	B-401		R/S	NR4							3173	
3173	0004	TYZ	4370-00-926-4200	Mask	NR4	06	THW	1		1	AS1	3206	
3173	0001	TYZ	1005-00-078-9401	R.F.10					6			3173	
3173	0003	TYZ	1005-00-078-9401	R.F.10	NR3	06	THW	6		6	SD(1)	3184	SD(2)
3176	0001	TYZ	3730-00-577-6518	Track					1			3176	
3176	0003	TYZ	3730-00-577-6518	Track	NR1	06	THW	1	2	1	SD	3208	
3176	0003	LMW		00 Pm 571	NR3							3180	
3179	0001	TYZ	4310-00-861-9831	COMPRESSOR					1			3179	
3179	0003	TYZ	4310-00-861-9831	COMPRESSOR	NR1	06	CTW	1				3181	
3179	0001	TYZ	4310-00-861-9831	COMPRESSOR	NR1	06	THW	1		1			
3183	0001	TYZ	4370-00-926-4201	Mask					2			3183	

DA FORM 710-3-1  
JAN 68

SECTION OF 217 IS OBSOLETE.

Sample of a completed DA Form 710-3-1 (Document Register for Supply Actions)

For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG.

4 JAN 82

BTRY C 1-651 ARTY BN

WA2HCO

TRK UTIL 1/4 TON

TM 9-2320-218-20P, 12 JAN 72

**NOTE:** Blocks 4 and 5 will not be used on Consolidated Prescribed Load List

B-4

(Front Side)

DD FORM 314

REGISTRATION NUMBER	ADMINISTRATION NO.	MODEL TYPE	MODEL	ASSIGNED TO
JAN				
FEB				
MAR				
APR				
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

REMARKS

Next S Due 10507

Lube Due 7407

DATE RECEIVED	RECEIVED FROM	DISPOSITION		
REGISTRATION NUMBER	ADMINISTRATION NO.	MODEL TYPE	MODEL	ASSIGNED TO
A38422	HQ-3	TRK UTIL 1/4 Ton HBX 60833	MISIA2	5550M

This portion is provided for convenience in typing the lower lines on BOTH SIDES.  
To be detached prior to placing in EASEX or other vehicle-type file.

(Back Side)

DD FORM 314

REGISTRATION NUMBER	ADMINISTRATION NO.	MODEL TYPE	MODEL	ASSIGNED TO
JAN				
FEB				
MAR				
APR				
MAY				
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				

REMARKS

Odometer replaced at 27871 miles, now reading 0 zero miles  
Hourmeter replaced at 240 hours, now reading 0 zero hours

DATE RECEIVED	RECEIVED FROM	DISPOSITION		
REGISTRATION NUMBER	ADMINISTRATION NO.	MODEL TYPE	MODEL	ASSIGNED TO
A38422	HQ-3	TRK UTIL 1/4 Ton HBX 60833	151A2	5559M

This portion is provided for convenience in typing the lower lines on BOTH SIDES.  
To be detached prior to placing in EASEX or other vehicle-type file.

1. END ITEM				2. SAMPLE FREQUENCY	3. COMPONENT	
a. NOMENCLATURE AND TYPE				30 DAYS	a. NOMENCLATURE AND TYPE	
b. MAKE OR TYPE					b. SERIAL NUMBER	
c. SERIAL NUMBER					c. TIME SINCE NEW OR OVERHAUL	
CARRIER PERSONNEL				25 HOURS	ENGINE DD6V53	
M113A1					A92191	
MJS18536					120	
4. DATE	5. END ITEM	6. COMPONENT	7. LAST OIL CHANGE	8. REASON FOR SAMPLE	9. RESULTS	10. SIGNATURE
15 JAN 83		120	Ø	ROUTINE	NORMAL	J. Bilko SSG
15 FEB 83		150	30	ROUTINE	NORMAL	J. Bilko SSG
1 MAR 83		175	55	ROUTINE	NORMAL	C.J. White SSG
1 APR 83		195	75	ROUTINE	RE SAMPLE REQ'd	C.J. White SSG
5 APR 83		200	5	SPECIAL	CHANGE OIL	Fred Avery SSG
1 MAY 83		225	30	ROUTINE	NORMAL	C.J. White SSG
1 JUN 83		245	50	ROUTINE	FUEL DILUTION INSPECTION REQ CH9 OIL - RESAMPLE	C.J. White SSG
10 JUN 83		247	2	SPECIAL	OK. RETURN TO OPERATION	C.J. White SSG
9 JUL 83		272	25	ROUTINE	NORMAL	J. Bilko SSG

DA FORM 2498-20

OIL ANALYSIS LOG

4. DATE	5. END ITEM	6. COMPONENT	7. LAST OIL CHANGE	8. REASON FOR SAMPLE	9. RESULTS	10. SIGNATURE
9 JUL 83		272	25	Routine	Normal	J. Bilko SSG

## REMARKS

- ① ANALYSIS PERFORMED AT: FORT KNOX ADAP LABORATORY  
 ② ODOMETER REPLACED: OLD METER READING - 52193, NEW METER READING - Ø  
 ③ OIL CHANGED 15 JAN 83 245

MATERIEL CONDITION STATUS REPORT										REQUIREMENT CONTROL SYMBOL					
For use of this form, see DA FORM 735-750; the originating agency is DCSLOG.										CSGOLD 1045 (R3)					
1. PERIOD OF REPORT			2. DATE PREPARED			3. UTILIZATION CODE			4. PAGE NO.		5. NO. OF PAGES				
FROM: 3075 TO: 3104			3105			6			1		2				
6. TO: (Include ZIP Code)			6. FROM: (Include ZIP Code)			7. UNIT IDENT CODE			8. TOS NO.						
Commander 123rd (Arty. Inf. Armor. etc.) Ft Sharp, KS 00000			Commander 1st Bn (Arty. Inf. Armor. etc.) Ft Sharp, KS 00000			WB29AA									
9. AVAILABILITY STATUS (ITEMIZED)															
REQ NO.	NOMENCLATURE			BCC LN	3080TY		EQUIPMENT AVAILABILITY				FOR FIELD USE ONLY				
	NOIN	EOS	MODEL		AUTH QTY	ON HAND QTY	POSSIBLE DAYS	AVAILABLE DAYS	NONAVAILABLE DAYS		REQ QTY	REQ DATE	ED	EW	ERC
	a	b.1.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.
1	PNEU TL		250 CFM	QCP11866	1	0									
2	REC VEH MED			6FR50681	3	2	60	56	4						
2a	REC VEH MED		MOB	6FR50681		1	30	30							
2b	REC VEH MED		MOB A1	6FR50681		1	30	26	4						
3	TNK CBT FT			F8V13101	54	54	1620	1280	73	52	172	43		79	
3a	TNK CBT FT	M	M60AIR	F8V13101		10	300	115	18	2	150	15		38	
3b	TNK CBT FT	M	M60AIRP	F8V13101		25	750	635	35	40	17	23		85	
3c	TNK CBT FT		M60AIRAOS	F8V13101		19	570	530	20	10	5	5			
4	TRK UTIL 1/4T		MISIRI	H8X60833	6	6	120	111	62	7					

DA FORM 2406

EDITION OF DEC 70 IS OBSOLETE.

10. NONAVAILABLE STATUS (ITEMIZED)										
REQ NO.	NOIN	EOS	MODEL	BCC LN	DATE AVAIL	DATE NON-AVAIL	DATE ADMITTED TRANSFER		SUPPORT SHOP JOB OR REQ NO.	REMARKS OR PART NO.
							REQ	MAINT SUPPORT		
	a	b	c	d	e	f	g	h	i	j
3a	TNK M60AIR		SJ10429	D	3011	3011	3015		HQ125	Transmission
3a	TNK M60AIR		SJ11277	D	3012	3012	3015		HQ128	Engine
3b	TNK M60AIRP		SJ1962	B	3016	3016			WSSCOM 30166013	Rotary Pump 2910-00-319-4293
4	TRK 1/4 T		SJ4211	B	3037	3037			WSSCOM 30376061	Radio Fuel 5820-00-437-1143
4	TRK 1/4 T		SJ5214	B	3086	3086			WSSCOM 30866011	Seal 4820-00-411-1111

11. REMARKS: During this period, M60AIR Tank NMC time was experienced due to the replacement of Arm Assy, Road Wheel, NSN, 2530-00-871-2856 on seven tanks. DARCOM LAG FMT has been contacted to determine the cause of failure. Local supply of Arm Assembly is limited. External source of supply is AXZ.

12. DATE	13. VERIFIED BY (Signature)
3105	Fred J. Londane MAT OLD

NOTE: Indicate reason of nonavailability in column A - Modification B - Parts C - Misinformation D - Support Misinformation

Revised DA Form 2406

DA FORM 2406 1-68 (1-68)

How to Fill Out the DA Form 2406

ORGANIZATIONAL CONTROL RECORD FOR EQUIPMENT									
For use of this form, see DA FORM 720-760, the predecessor agency is DCSLOG.									
ORGANIZATION	COMPONENT NAME	ITEM NO.	DATE OF EQUIPMENT	DATE OF EQUIPMENT	DATE OF EQUIPMENT	DATE OF EQUIPMENT	DATE OF EQUIPMENT	DATE OF EQUIPMENT	DATE OF EQUIPMENT
SFC McBRIDE	SUPPLY ROOM	3452	0746	1100	1700	1700	1700	1700	1700
Sgt. West	Bn Maint Shop	4131	0815	1700	1700	1700	1700	1700	1700
11c Roberts	Production Room	3745	1300	1730	1730	1730	1730	1730	1730
LTC D. Tolson	Bn HQORS	4990	1400	5000	5000	5000	5000	5000	5000
MKH Smith	Range #3	8413	0730	1730	1730	1730	1730	1730	1730
Mr. White, Jr.	"	"	"	"	"	"	"	"	"
Sgt. CARDWELL	"	"	"	"	"	"	"	"	"
CPT SHERMAN	ORDERLY ROOM	5831	0700	1730	1730	1730	1730	1730	1730
MSG LEVY	Bn Maint Shop	4121	0730	1700	1700	1700	1700	1700	1700
SFC Lane	Bn Maint Shop	4121	0900	1200	1200	1200	1200	1200	1200
SFC Lane	"	"	"	NA	NA	NA	NA	NA	NA
DA FORM 2401									

DA Form 2401

APPENDIX C  
SUMMARY OF ARMY REGULATION 220-1  
UNIT STATUS REPORTING

## UNIT STATUS REPORTING

### A. OVERVIEW

This appendix contains a summary of the USR Reporting guidelines and instructions for a battalion, as outlined in AR 220-1 and Correspondence Course IS0267. The purpose of this summary was to provide an understanding and ready reference to the requirements for completion of the USR in order to facilitate the development of requirements for the USR vu-graphs.

#### 1. USR: Definition and Use:

The Unit Status Report (USR), also known as DA form 2715, is a key Army management tool in support of an overall reporting system for unit readiness. The USR provides the Army with indicators to:

- o Inform Headquarters, Dept. of the Army (HQ DA) and commanders at all levels about readiness of units.
- o Identify problems which degrade unit status.
- o Assist DA and intermediate commands in allocating resources.
- o Identify differences between current personnel equipment assets and full wartime requirements.
- o Determine Army-wide readiness conditions/trends.

Unit readiness applies to all levels of command, all Table of Organization and Equipment (TOE) units of the Army (except those specifically exempted by DA), and selected Table of Distribution and Allowance (TDA) units and selected TOE detachments that DA HQ designates to be reporting units.

For reconciliation of resource constraints and readiness objectives, required levels of readiness are assigned to units based on a priority-of-mission basis. Unit commanders are concerned with:

- o Maintaining highest level of unit training and equipment status within given resources,
- o Assuring that USR readiness ratings are accurate, and
- o Redistribution of resources to correct or avoid readiness-degradation.

The Unit Status Report (USR) contains selected measures of unit and total force readiness, but not the information needed to manage resources or evaluate in-depth readiness concepts. The ratings in the USR concern personnel, equipment, and training. Ratings of personnel and equipment are more objective in nature, due to the ability to quantify human and materiel resources. Unit training and overall ratings in the USR which are focused on unit capability are inherently more subjective.

#### 2. USR Vu-graphs: Purpose and Use

The USR vu-graphs described in Section 8 are used by the 9th Infantry Division commanders to brief higher commands on unit status and to prepare DA Form 2715 each month. Some of the vu-graphs are directly

transposed from elements of DA 2715, while others are designed to provide back-up (tables, lists, etc.) needed in completing specific portions of DA 2715. This type of vu-graph provides a more effective management/communication tool in transmitting critical information on the USR or as back-up to the reportable resource elements in the USR. These vu-graphs allow the commander to provide his superiors with visual substantiation of both the objective and the more inherently subjective ratings in the USR. In addition, these vu-graphs permit single resource reporting which is less likely to require classification. As part of the ATUTMS project, the user (1/11 FA) wishes to utilize the ATUTMS data base in calculating the required information for these vu-graphs. In the case of percentages, it is desirable to have the computer take the appropriate data and calculate required percentages for the system user responsible for USR reporting.

### 3. Security Considerations

The minimum security classification for a USR is confidential because of the obvious sensitivity of overall unit readiness ratings. Because the USR (DA Form 2715) contains both single measurable resource ratings as well as overall unit ratings, the form requires document classification to cover the highest degree of classification within the document. Use of the individual vu-graphs would permit display and reporting of individual resource areas, which would not be as sensitive as the overall elements of the units' readiness. See also part B 2(c) Report Classification (Security).

## B. PREPARATION OF THE MONTHLY UNIT STATUS REPORT

### 1. Introduction

As mentioned in the introduction to this chapter, the USR to be discussed in this section is a management tool within the overall unit readiness reporting system. Understanding the individual elements and requirements for calculating the reportable items in the USR is a key step in the process of developing the ATUTMS user requirements for the vu-graphs used to portray unit status.

The USR includes information about both percentage (strengths) and readiness ratings in different measurable resource areas as well as in an overall sense. Readiness ratings are reported on a scale from 1-4, 1 indicating the highest level of readiness, and 4 indicating that a unit is NOT "mission-capable". Since unit ratings must be an accurate assessment of the unit, changing the status rating at levels above the unit is not permitted. For the following section, a summary of reporting instructions is taken from AR 220-1, the USR's guiding document.

### 2. General Reporting Instructions

#### a. Units

Among the many classifications of units required to prepare/submit USRs through the chain of command are the following kinds of units relevant to ATUTMS: divisions, brigades, armored cavalry, regiments, battalions and separate companies organic to a division, separate brigades and regiments. The USR is submitted through command channels to the MACOM level.

b. Timing

USR's should be submitted on the 15th day of each month. "Change" reports are submitted whenever a change in the overall rating occurs.

c. Reporting Channels

USRs are forwarded to installation/division level/ARCOM/GOCOM/TAG/JCS/MACOMS (designated by JCS).

d. Actions by Higher Commanders

Subordinate units ratings are not changed by commanders in higher units; however RA2 cards are used for remarks concerning in-process issuing of assets which, in effect, modify ratings. Other comments by commanders above division level are forwarded by separate communication.

e. Report Classification (Security)

The party responsible for classification is the USR originator. The minimum classification accorded a USR is CONFIDENTIAL, due to the fact that it contains more inherently sensitive overall ratings; however separate measured resource areas of a single unit are unclassified (e.g. a company's personnel rating). This indicates need for (a) controlling access to the separate resource accounting areas of the USR data base and/or (b) developing a program which would allow all the data to be entered and retrieved only as separate measured resource areas; however, the actual, final filling out of the form must be done manually.

3. Summary of Requirements for USR Preparation (Sections A and B)

a. General

The preparation of the USR is guided primarily by AR220-1. Additionally Army Correspondence Sub-Course #IS0267 covers the definitions and instructions for completing the USR. This information is summarized below in a block by block examination of the 80 blocks on the USR (DA Form 2715) in each of its parts: A and B (please refer to Exhibit C-1).

b. Heading and Unit Identification Data (Blocks 1-14, Section A)

(1) Blocks 1-3 To be entered only by HQ preparing punch cards.

(2) Block 4 Classification status of this USR. "C", "S", or "T" to be entered for Confidential, Secret, or Top Secret

(3) Block 5 Represents the Transaction Code. A, C, or D to be entered. Basically these refer to changes data in a record (addressing only fields to be changed.)

Rules governing the Transaction Code to be entered are:

EXHIBIT C-1: Worksheet Used to Assemble the Information to Complete the Monthly Unit Status Report (DA Form 2715)

UNIT STATUS REPORT WORKSHEET <small>For use of this form, see DA Form 2715, 1-65, and DA Form 2715-1, 1-65, and DA Form 2715-2, 1-65.</small>		AS OF DATE <b>15 Jan 80</b>	REQUIREMENT CONTROL SYMBOL <small>See DA Form 2715-1</small>
TO: <b>CDR 39th Inf Div (Mech) Ft Outpost, GA</b>	FROM: <b>CDR Ft Outpost, GA ATTN: ABCD-43</b>	FROM: <b>CDR 2d Bn 55th Mtn Ar Ft Outpost, GA</b>	
SECTION A - CARD TYPE RAT, RAS, OR RAS			
<p>1. <input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> Card sequence number (Entered by HQ preparing pouch cards)</p> <p>2. <input type="text" value="C"/> Classification (C.S.T.)</p> <p>3. <input type="text" value="C"/> Transmission Code (A.C.D.)</p> <p>4. <input type="text" value="K"/> <input type="text" value="A"/> <input type="text" value="1"/> Card Type</p> <p>5. <input type="text" value="W"/> <input type="text" value="A"/> <input type="text" value="Y"/> <input type="text" value="P"/> <input type="text" value="A"/> <input type="text" value="A"/> Unit Identification Code</p> <p>6. PERSONNEL READINESS DATA</p> <p>a. <input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="5"/> Assigned Strength Percentage</p> <p>b. <input type="text" value="9"/> <input type="text" value="0"/> Available Strength Percentage</p> <p>c. <input type="text" value="9"/> <input type="text" value="0"/> Available MOS Trained Percentage</p> <p>d. <input type="text" value="6"/> <input type="text" value="7"/> Available Senior Grade Percentage</p> <p>e. <input type="text" value="1"/> <input type="text" value="0"/> Personnel Training Percentage</p> <p>7. EQUIPMENT ON HAND DATA</p> <p>a. <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="7"/> Total Line Items</p> <p>b. <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="2"/> Number of Line Item 1</p> <p>c. <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="2"/> Number of Line Item 2</p> <p>d. <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="2"/> Number of Line Item 3</p> <p>e. <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/> Number of Line Item 4</p> <p>f. <input type="text" value="9"/> <input type="text" value="5"/> Pending Items Percentage of PIR (EODI)</p>	<p>8. EQUIPMENT STATUS (ES)/READINESS (ER) DATA</p> <p>a. <input type="text" value="9"/> <input type="text" value="4"/> Percentage of On Hand Equipment Mission Capable (ES)</p> <p>b. <input type="text" value="9"/> <input type="text" value="2"/> Percentage of on Hand Pending Items Mission Capable (PI - ES)</p> <p>c. <input type="text" value="9"/> <input type="text" value="7"/> Percentage of Required Equipment Mission Capable (ER)</p> <p>d. <input type="text" value="9"/> <input type="text" value="9"/> Percentage of Required Pending Items Mission Capable (PI - ER)</p> <p>9. TRAINING DATA</p> <p>a. <input type="text" value="3"/> Weeks to complete training</p> <p>CONSTRAINTS</p> <p>b. <input type="text" value="C"/> Assigned Strength Shortfall</p> <p>c. <input type="text" value="A"/> Reduced Military Manpower</p> <p>d. <input type="text" value="A"/> Availability of Funds</p> <p>e. <input type="text" value="A"/> Availability of Equipment/Manpower</p> <p>f. <input type="text" value="C"/> Availability of Qualified Leaders or Status of Artisan Training</p> <p>g. <input type="text" value="A"/> Availability of Training Areas/Facilities</p> <p>h. <input type="text" value="A"/> Availability of Fuel</p> <p>i. <input type="text" value="B"/> Availability of Ammunition</p> <p>j. <input type="text" value="A"/> Availability of Time</p> <p>10. <input type="text" value="3"/> (Insert Line Rating (Enter 1, 2, 3, 4 or 5))</p> <p>11. <input type="text" value="1"/> Authorized Level of Organization (1, 2, 3, 4, 5, 6, 7, 8, 9, A, C)</p> <p>12. <input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="5"/> Date of Report (YYMMDD)</p> <p>13. <input type="text" value="5"/> Parent Unit Identifier</p> <p>14. <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Unit Identification Code</p> <p>15. <input type="text" value="P"/> <input type="text" value="8"/> Report Type (Enter PR)</p> <p>16. <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Report Number shown by HQ preparing pouch cards</p>		

DA Form 2715

SECTION OF DA FORM 2715-1

EXHIBIT C-1: (continued)

SECTION B - CARD TYPE K, KAS or KAS	
17	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Card Sequence Number (Entered by HQ Preparing Punch Cards)
18	<input type="text" value="C"/> Classification (C,S,T)
19	<input type="text" value="S"/> Transaction Code (A,C,D)
20	<input type="text" value="K"/> <input type="text" value="A"/> <input type="text" value="9"/> Card Type
21	<input type="text" value="W"/> <input type="text" value="A"/> <input type="text" value="4"/> <input type="text" value="P"/> <input type="text" value="A"/> <input type="text" value="A"/> UTC of Reporting Unit
22	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Blank
23	<input type="text" value="3"/> Overall Unit Rating (Enter 1, 2, 3, 4 or 5)
24	<input type="text" value="P"/> Primary Reason Overall Rating Not 1 (P,S,K,T,N,X,U)
25	<input type="text" value="3"/> Personnel Rating (Enter 1, 2, 3, 4, or 5)
26	<input type="text" value="P"/> <input type="text" value="2"/> <input type="text" value="9"/> Reason Personnel Rating Not 1 (See Codes)
27	<input type="text" value="1"/> Equipment on Hand Rating (Enter 1, 2, 3, 4, or 5)
28	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Reason Equipment on Hand Rating Not 1 (See Codes)
29	<input type="text" value="2"/> Equipment Readiness (ER) Rating (Enter 1, 2, 3, 4)
30	<input type="text" value="R"/> <input type="text" value="6"/> <input type="text" value="1"/> Reason Equipment Readiness (ER) Rating Not 1 (See Codes)
31	<input type="text" value="2"/> Training Rating
32	<input type="text" value="T"/> <input type="text" value="3"/> <input type="text" value="4"/> Reason Training Rating Not 1 (See Codes)
33	<input type="text" value="T"/> <input type="text" value="3"/> <input type="text" value="4"/> Secondary Reason (Overall Rating Not 1)
34	<input type="text" value="R"/> <input type="text" value="6"/> <input type="text" value="1"/> Tertiary Reason (Overall Rating Not 1)
35	<input type="text" value="2"/> Proposed Overall Rating (1, 2, 3, 4 or 5)
36	<input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="5"/> Proposed Date of Change in Overall Rating (If Applicable)
37	<input type="text" value="1"/> Anticipated Level of Organization (ALO) (1, 2, 3, 4)
38	<input type="text" value=""/> <input type="text" value=""/> Reason for Organization Less Than ALO (If 1)
39	<input type="text" value="8"/> <input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="5"/> Date of Report (YYMMDD)
40	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Blank
41	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> UTC of Command Preparing Cards
42	<input type="text" value="7"/> <input type="text" value="5"/> Report Type (RT)
43	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> Report Number (Entered by HQ Preparing Cards)

- Use "A" during initiation of new organizational record, or to change previously reported remarks on Card type R, RA1, RA2.
- Use "C" for recurring or normal change reports (e.g., monthly USR.)
- Use "D" for deletions of entire record or logical portion. D required prior to a change transaction. "D" NOT USED to delete data in single field or data element of a record. (Use C instead.)

(4) Blocks 6-8 Refers to Card Type. Normally KA1 used, unless report is a NATO Contingency Report (KA3).

(5) Block 9-14 refers to the Unit Identification Code (UIC). USRs are submitted by units having a UIC.

c. Personnel Data (Blocks 15-25, SECTION A)

(1) Block 15-17

Definition: This is the operating (or assigned) strength percentage. To calculate, divide the operating strength by the required MTOE strength and convert to a percentage.

$$\frac{(\text{Assigned}) \text{ Operating Strength}}{\text{Required MTOE strength}} \times 100$$

Note: operating strength = the accountable strength of latest PCSN:AAC-CO5, Unit Strength RECAP (Part II), adjusted to "as of" date of unit status report by adding gains and subtracting losses since the date of the latest unit strength RECAP (Part II). This gain and loss information should be retrievable from the ATUTMS personnel data base by counting additions and losses during this interim time period using the daily personnel update. The PCSN:AAC-CO5 Unit Strength RECAP Part II is part of SIDPERS (see Manual)

(2) Blocks 18,19

Definition: Refers to available strength percentage, as defined in Appendix D, AR 220-1. "Available" personnel are defined as meeting the criteria of being assigned to the unit and NOT being in one of the following categories:

- Deceased
- Missing, or POW
- In legal processing that precludes usual travel/duties (e.g., arrest and confinement, civil or military action pending)
- AWOL
- Assigned/not joined or assigned/departed
- Hospitalized or temporary profile
- TDY (Temporary duty)
- Commanders's restriction (discretionary and could include: Human reliability program, pending discharge, separation, compassionate reassignment, pregnant, etc.)

Further criteria for "available" are imposed if a unit is tasked for, or subject to, deployment. These are:

- Medically-deferred from deployment
- Has not completed minimum of 12 weeks basic or advanced training (or equivalent)
- Sole surviving family member, conscientious objector (CO), or deferred from hostile fire zone.
- Service member with 14 days to ETS (estimated time of separation) from the actual time of deployment and not re-evaluated
- Pregnant
- Commanders's restriction (see above.)

Calculations/Blocks 18,19

Determine the number of personnel who are available (as of the USR reporting date), by subtracting the number of personnel who are "NOT" available (using the above criteria) from the operating/assigned strength as determined from the PCSN: AAC-CO5, Unit Strength RECAP (Part II) from the ATUTMS personnel files. Divide this available strength by the required MTOE strength, and convert to a percentage:

$\frac{\text{Available Strength}}{\text{MTOE Required Strength}} \times 100 = \text{Available Strength Percentage}$
---

(3) Blocks 20,21

Definition: Available MOS trained percentage

Calculation:

$\frac{\text{MOS trained strength}}{\text{Required MTOE strength}} \times 100$
--

(Requirement: Information on MOS-trained strength is contained in the ATUTMS personnel data base and should be calculated according to identity (Officer, Warrant Officer, Enlisted) and by Military Occupational Speciality Code (MOSC) for each identity category. Use the number of personnel included in total operating strength by identity and MOSC. Next, match trained personnel against spaces in MTOE "required" column in the following manner:

- Officers are matched to officer spaces on 1 to 1 basis
- For Warrant Officer (WO) and enlisted categories, consider as "trained" those with primary MOSC, secondary MOSC, additional MOSC or substitutable MOSC as outlined in AR 611-201.).

MOS-trained personnel who are "overstrength" in a specific skill category, AWOL, or in confinement are NOT to be considered in matching trained personnel to required MTOE spaces. Overstrength personnel should be matched to MOS vacancies in MTOE spaces, using a program with the capability to match spaces with personnel having appropriate MOSs; primary, secondary and so forth. The software could be programmed to consider as "trained", those personnel with primary, secondary, additional MOS, or "substitutable" MOS. (see rule in AR 611-201 Enlisted Personnel Management.)

(4) Blocks 22,23 (Available Senior Grade Percentage.)

Definition: "Senior grade" means officer, WO, and enlisted grades: E-5-E-9.

Calculations: The system should count the assigned senior grade personnel and divide the result by the total number in these categories required by the unit's full MTOE and convert to a percentage.

$\frac{\text{Available Senior grade personnel}}{\text{Required MTOE Sr. Grade Personnel}} \times 100 = \text{Available Senior Grade Percentage}$
--

(5) Blocks 24,25 (Personnel Turnover Percentage)

Definition: The personnel turnover percentage is the result of dividing the number of personnel who have been discharged or reassigned from the reporting unit during the previous 3 month period by the operating (assigned) strengths on the "as of" date of the USR. (see also calculations for Blocks 15-17, referring to operating strength.)

Calculations: See Calculations for Blocks 15-17, referring to operating strength.

d. Equipment On Hand Data (EOH)

This portion of the USR (Part A) is a logistic indicator depicting the organization's logistics status re: availability of equipment specified according to para 3-4a, AR220-1 (explained below):

(1) Blocks 26-28

Definition: Refers to total number of reportable line items.

Data Source: MTOE/TDA, Section III, Equipment Allowance Recapitulation.

Calculations: Determine the number of line item numbers that:

- (a) Have a number of  $\geq 1$ , shown in "Required" Column of the MTOE,
- (b) Are coded ERC-A (Primary Weapons and Equipment) in Section III (see above), and
- (c) Do not have a LIN beginning with I (computer hardware), or Z (developmental items), unless items are on hand.

Enter the number of reportable lines (LINS) in Blocks 26-28. If none, use 0 in blocks 26-28 and leave blocks 29-50 blank. Also, enter 1 in blocks 26 and 30, Section B., USR). Include (count) equipment on loan but returnable within 72 hours in EOH computations from property books.

(2) Blocks 29-40 Rating the LINS (1)-(4):

Calculations: Those LIN items in the MTOE "Required" Column  $\geq$  21 of that item, "percentage of fill" must be computed:

$$\text{Percentage of Fill} = \frac{\text{Total No. On Hand} + \text{In Lieu of}^1(\text{Items})}{\text{TOE/MTOE Required Column for that LIN}}$$

(Source for Numerator = Unit Property Books)

For those reportable LINS with 20 items in the "required" column for that line, a C-Rating is devised (see attached Table 3-1)

Rule: AR220-1 - para 3-6 outlines criteria for counting reportable items on a unit's property books.

To rate LINS with  $\geq$  21 items use rating criteria below:

<u>LIN fill (Percentage)</u>	<u>Rating Category</u>
At least 90%	C-1
At least 80%, but less than 90%	C-2
At least 65% (60% aircraft) but less than 80%	C-3
Less than 65% (60% aircraft)	C-4

(3) Blocks 41,42 Pacing Items/Percentage of Fill (EOH)

Determine from APPENDIX C, AR 220-1 whether reportable LIN items are pacing<sup>2</sup> items, and enter the percentage of fill of the LIN. If more than one pacing item, report percentage of fill for the one with the lowest C-rating. If none, leave blank and also leave Blocks 45-46 and 49-50 blank.

e. Equipment Status (ES)/Readiness (ER) Data

The definition of ES is the Mission-Capable (MC) rate of Code ERC-A "reportable" equipment actually on hand. The rate is a percentage. Computations cover the period from the 16th day of prior month to the 15th day of current month (the reporting date for the USR).

1 ILO-ITEMS are classified with a Logistics Control Code (LCC) A, B, F, T, or U in SB700-20; LCC "R" in AR 708-1

2 Pacing Items are those items determined to be essential to a unit's mission thus they need to be on hand and in working order.

(1) Data Sources (3)

- (a) Equipment other than aircraft and some missiles - DA Form 2406 (Materiel Readiness Report) - see TM 38-750
- (b) Aircraft<sup>1</sup> Data - DA Form 1352 (Army Aircraft Inventory Status & Flying Time - see AR 95-33 - NOT TO BE MIXED WITH OTHER EQUIPMENT FOR ES COMPUTATIONS)
- (c) Missile Data - Taken from DA Form 3266-1 (Missile Materiel Readiness Report) - AR 750-40.

(2) Blocks 43,44

Definition: Percentage Code ERC-A on-hand equipment which is mission-capable (ES) (Identify items of equipment<sup>2</sup> on DA Form 2406)  
Calculations: Divide total available days from Col. h, DA Form 2406 by the total possible days (Col. g., DA Form 2406) Convert to percentage. Enter in blocks 43, 44. [Re: Substitute equipment for an EOH. LIN is considered even if this equipment isn't reportable on DA Form 2406-Use DD Form 314 instead (Preventative Maintenance Schedule Record).]

(3) Blocks 45,46 (Percentage on-hand pacing items MISSION Capable (PI-ES).

Calculations: For a LIN that is a pacing items, use same calculation as for Blocks 43,44. If unit has more than 1 pacing item, report percentage of pacing item with the lowest C-Rating in blocks 45,46.

(4) Blocks 47,48

Definition: Percentage of required equipment mission capable (ER).

Calculations: Use the total available days for mission capable equipment for computations in blocks 43,44. Divide total available days by the total required days<sup>1</sup>. Convert to a percentage and enter in blocks 47,48. Data sources: DA Form 2406.

(5) Blocks 49,50

Definition - Percentage of required pacing items mission capable (PI-ER)

Calculations: Divide available days for each pacing item by total required days for the total number of items for each LIN. (pacing items)

$\frac{\text{Pacing Item(s) Available Days}}{\text{Pacing Item(s) Required Days}} \times 100 = \text{Percentage Required Pacing Items (Mission Capable)}$
---

1 See AR 220-1, para 3-8 for rules governing aircraft reporting.

2 Exceptions: see AR 220-1, para 3-8.

f. Training Data (Blocks 51-60)

(1) Introduction: The purposes of unit training ratings (in order of importance) are:

- (a) To indicate current unit capability to perform functions, tasks, and missions assigned to that unit, and
- (b) To indicate resource shortages which could inhibit achieving/maintaining training objectives.

The training rating is more subjective than other USR resource measurements because it is based on a number of factors:

- (a) Unit performance during training
- (b) Elapsed time since training
- (c) Estimated time needed to overcome training deficiencies
- (d) An assessment of the funds, time and facilities needed to support available personnel in training.

(2) Block 51 - (Weeks to complete training)

Definition: An analytical procedure used to estimate weeks needed to achieve fully-trained unit status. Commanders consider the following:

- (a) Proficiency during testing, inspections, etc. (see para 3-9 of AR 220-1)
- (b) Personnel and equipment present at training
- (c) Elapsed time since training
- (d) MOS-trained personnel
- (e) Results of SQTs
- (f) Quality of leadership in sub-units
- (g) Individual and crew-served weapons proficiency
- (h) Demonstrated capability to perform full range of TOE/MTOE mission.
- (i) Results of operational readiness test and alerts
- (j) NBC operational capability (see AR220-58 for standards)

Calculations: The commander, using the above criteria, makes a determination of the functions, tasks and missions the unit is capable of performing. This represents that unit's "current level of training". Then an estimate of the number of training weeks needed to attain fully-trained status is made by:

- (a) Determining the functions, tasks, missions which the unit should perform to designated in the full TOE/MTOE. Appropriate training publications should be made here: ARTEP, ATT (Army Training Test), and the ATP, plus headquarters guidance.

- (b) Determining the  $\Delta$  between (a) above and the "current level of training" (units capability.). These functions, tasks, and missions are the training shortfall and an estimate is then made of the number of weeks needed to complete training. (Calculate only training for the unit. Do not calculate for training at levels higher than that unit in which the unit will be participate.)
- (c) Enter number of weeks in Block 51. If 9 week use letter "E".
- (d) Special Instructions: para 3-9, AR220-1 contains special instructions for units with certain classifications e.g. units:
  - In combat
  - With severe personnel and equipment shortfalls,
  - Which are active and "nuclear-capable".
  - With Korean "augmentation" to US Army personnel
  - With Reserve components

(3) Blocks 52-60 - (Constraints)

Definition: Indicates the degree to which resource constraints are preventing the unit from achieving/sustaining training objectives. Rating criteria are as follows:

- (a) Enter "A: if that training factor (resource area) is an insignificant impact on training
- (b) Enter "B" if that training factor (resource area) is having a minor impact on training
- (c) Enter "C: if factor/resource is having major impact.
- (d) Enter "D: if factor/resource is prohibiting achievement or maintenance of training status.

Calculations: Calculate according to the following directions:

- (a) Block 52 - (Assigned strength shortfall)  
Enter effect, using criteria above. When overall assigned strength or lack of key MOS qualified personnel hinders training, commander's remarks are required.
- (b) Block 53 - (Borrowed Military Manpower)  
Enter borrowed military manpower indicator (based on loss of manpower due to diversions - either individual or group), as defined in AR 570-4).
- (c) Block 54 - (Availability of Funds)  
Enter availability of funds indicator.
- (d) Block 55 - (Availability of Equipment/Materiel)  
Enter indicator. Not limited to TOE equipment. Also involves training items (e.g. simulators, devices, extension course tapes, mock-ups, etc.)

(e) Block 56 - (Availability of Qualified Leaders or status of aviator training) Enter indicator. Emphasizes leaders needed for primary TOE mission.

(f) Block 57 - (Accessibility of training areas/facilities). Enter indicator. Emphasis is on quality, size and accessibility to unit.

(g) Block 58 - (Availability of Fuel). Enter indicator. Consider requirements for both field and garrison training.

(h) Block 59 - (Availability of Ammunition) Enter indicator. Consider both service and training-peculiar types of ammo.

(i) Block 60 - (Availability of Time). Enter indicator. Consider impact of competing activities.

Remarks: For any indicator which is not "A", remarks are required in narrative form under data label "TRRAT". Battalions must report the date of their last externally-evaluated ARTEP.

g. Overall Unit Ratio & Identification Data (Blocks 6-80, Section A)

(1) Block 61

Definition: Rating, on a scale of 1-4, which best describes units capability to perform its chartered mission. This is based on commander's judgement, under the guidelines in (2) below.

Calculations: The rating is based on the criteria outlined in Exhibit C-2 (from AR-220-1, pp. 3-9 to 3-10).

Considerations in rating selections:

Below are some of the factors to be taken into account by a commander in selecting a rating:

- (a) Personnel, training and logistics ratings
- (b) Shortcomings not shown in ratings in (a) above
- (c) Percentage of total (equipment) systems available, under the following rule of thumb:

Rating of "1" - 85% total systems available
Rating of "2" - 70% total systems available.
Rating of "3" - 60% of total systems available

- (d) Quality of leadership, esprit, etc.
- (e) Prescribed Load List/Authorized Stockage List  
PLL/A SL percentage of fill available to deploy
- (f) Availability/serviceability of basic loads of ammo

Exhibit C-2: COMMANDER'S OVERALL RATING CRITERIA  
Source: AR 220-1 pp. 3-9/3-10

- C-1  
(Combat ready,  
no deficiencies)      The unit has its prescribed levels of wartime resources and is trained so that it is capable of being deployed. If outside CONUS, it can perform its operational contingency missions.
- C-2  
(Combat ready,  
minor deficiencies)      The unit has only minor deficiencies in its prescribed levels of wartime resources or training. Its capability to perform the wartime mission for which it is organized, designed, or tasked is limited. If in CONUS, a unit is capable of being deployed, but minor additional training or resources are desirable. If outside CONUS, it can perform its operational contingency mission.
- C-3  
(Combat ready,  
major deficiencies)      The unit has major deficiencies in its prescribed levels of wartime resources or training. Its capability to perform the wartime mission for which it is organized, designed, or tasked is limited. It can deploy or execute its operational contingency mission at reduced capability, but normally it will first be given additional training or resources to increase its readiness posture.
- C-4  
(Not combat ready)      The unit has major deficiencies in its prescribed wartime resources or training and cannot effectively perform the wartime mission for which it is organized, designed, or tasked. It requires major upgrading prior to deployment or employment in combat. However, if conditions dictate, the unit might be deployed or employed for whatever residual capability it does have. (For example: A three brigade division rated C-4 may be able to provide two fully supported mission capable brigades.)
- C-5  
(Not combat ready,  
programmed)      Due to HQDA action or programs, the unit is not ready and does not have the prescribed wartime resources or cannot perform the wartime mission for which it is organized, designed, or tasked. C-4 deployment and employment considerations apply. Units rated C-5 are restricted to the following:
- (1) Units undergoing reorganization or major equipment conversion or transition.
  - (2) Units placed in cadre status by HQDA.
  - (3) Units which are being activated or inactivated.
  - (4) Units which are not manned or equipped but are required in the wartime force structure.
  - (5) Units with primary tasking as training units that could be tasked to perform a wartime mission.

### Notes

- The commander should also consider foreign language capability, if required for unit mission.
- If the overall unit rating differs from the lowest rating within a resource area, put an X in Block 21, Section B. (Explanatory remarks must be submitted by the commander).
- Usually the overall rating will not be higher than the training rating.

#### (2) Block 62 - (Authorized Level of Organization (ALO))

- (a) Definition - Self explanatory
- (b) Calculation - taken from ALO in units' authorization document (look for this).

#### (3) Blocks 63-68 - (Date of Report)

- (a) Definition - The "as of" date of the report, usually the 15th day of the month, unless it is a "change" report.
- (b) Calculation - see above

#### (4) Block 69 - (Parent Unit Identifier)

- (a) Definition - (Self-evident)
- (b) Calculations - Battalions and separate companies which are organic to major combat units (such as divisions, brigades, and armored cavalry regiments), enter "5". All other units, enter "4".

#### (5) Blocks 70-75 - (Unit Identification Code (UIC))

- (a) Definition - The UIC is the same as the unit that prepares USR punch cards.

#### (6) Blocks 76-77 - (Report Type)

- (a) Definition - (Self-evident)
- (b) Calculation - Enter FS

#### (7) Blocks 78-80 (Report Number)

- (a) Definition: (Self-evident)
- (b) Calculation: The number entered is that indicating the reports order among all other reports submitted by unit preparing USR punch cards.

#### h. Section B, DA Form 2715 Instructions

Section B, USR (DA Form 2715) is to be completed by all units. See USR, Appendix D (attached) for summary of rating criteria.

(1) Blocks 1-3 (Card Sequence Number)  
Leave blank - to be filled in by HQ transcribing punch cards.

(2) Block 4 (Classification)  
Definition - classification ascribed to this report.  
Calculations - Enter "C" if confidential (minimum is confidential) "S: if secret, or "T" if Top Secret.

(3) Block 5 (Transaction Code)  
Definition - Indicates type of report recurring, change, initial, terminal special, etc.  
Calculations: Normal entry = "e" for recurring or change. (For others, see Chapter 4, AR 220-1).

(4) Blocks 6-8 (Card Type)  
Definition - (Self-evident)  
Calculations - Normally a unit would enter "K" in Block 6. Leave Blocks 7, 8 blank.

(5) Blocks 9-14 (UIC of reporting Unit)  
Definition - (Self evident)  
Calculation - see Section A USR, Blocks 9-14.

(6) Blocks 15-19 (Leave Blank)

(7) Block 20 (Overall Unit Rating)  
Definition (Self-evident)  
Calculations: Use rating from Block 61, Section A, DA Form 2715. If it differs from lowest rating for personnel, equipment on hand, equipment readiness, or training, enter "X" in Block 21. An explanation is required in Remarks DA 2715-1, with data label: REASN.

(8) Block 21 (Primary reason overall rating not 1)  
Calculations: If the unit rating (Block 20) is not 1, enter a code from Section I, Appendix E (AR 220-1) that represents the primary problem preventing the unit from having a "1" rating. (Otherwise, leave blank). If there is an X in Block 21, a REASN remark is required: see para 3-31i (2) for instructions. (If unit rating in Block 20 is 5, enter code N in Block 21 from Section I, Appendix E.)

(9) Block 22: (Personnel Rating)  
Calculations:  
(a) Compare available strength percentage (from Blocks 18, 19, Section A/USR) to the criteria in table 3-2 below to determine rating:

TABLE 3-2

<u>Available Strength Percentage</u>	<u>Rating</u>
90% or greater	1
80% to 89%	2
70% to 79%	3
Below 70%	4

(b) Compare available MOS-trained percentage (from Blocks 20, 21; Section A, USR) to criteria in Table 3-3 below:

TABLE 3-3

<u>Available MOS/Sr. Grade Percentage</u>	<u>Rating</u>
86% or greater	1
75% to 84%	2
65% to 74%	3
Below 65%	4

(c) Compare available senior grade percentage (from Blocks 22,23; Section A/USR) to criteria in Table 3-3 above to determine rating.

(d) Enter the lowest of the ratings from (a), (b), and (c) above in Block 22.

(e) See AR220-1, para 3-19 for exceptions to 1-4 ratings above.

(10) Blocks 23-25: (Reason Personnel Rating Not 1)

Calculations: If Block 22 is not a 1, enter personnel code from Section II, Appendix E showing primary reason the personnel rating is not 1. (Otherwise, leave blank).

(11) Block 26: (Equipment on Hand rating)

Calculations: Calculate Block 26 as follows:

(a) Compute 90% of the number of lines entered in Blocks 26-28, Section A/USR.

(b) If pacing item percentage from Blocks 41, 42 Section A is  $\geq 90$ , as and if number of lines rated 1 (see blocks 29-31, Section A) number in (a) above, enter "1" in Block 26 and proceed to Equipment readiness. Calculations (see Block 30, USR Section B). If Block 29 is not "1", proceed as follows in (c):

(c) Add number of lines rated "1" (see Section A, Blocks 29-31) and "2" (see Section A, Blocks 32-34) If sum  $\geq$  number in (a) above and if pacing item percentage in Blocks 41,42, Section A is  $\geq 80$ , enter 2 in Block 26 and compute Reason Equipment on Hand is not rated "1", in (12) below. Otherwise, calculate Block 26 as follows:

(d) Add the number of lines rated "1" in Blocks 29-31, Section A), "2" (Blocks 32-34, Section A), and "3" (Blocks 35-37, Section A). If that sum  $\geq$  the number computed in (a) above, and if the pacing item percentage in Blocks 41 and 42 is 65 (60 for aircraft), enter "3" in Block 26. Otherwise enter 4 in that Block. (Units without pacing items, enter the rating from EOH).

(e) Notes: A "5" may be entered in Block 26, with MACOM approval. For units with pacing items, the EOH rating in Block 26 cannot be greater than the rating for that unit's pacing item.

(12) Blocks 27-29 (Reason Equipment on Hand Rating Not 1)

Calculations: If Block 26 is not 1, enter equipment code taken from Section II, Appendix E, showing the primary factor preventing higher EOH rating. (Otherwise leave blank).

(13) Block 30 (Equipment Readiness-ER-Rating)

Calculations: Calculate as follows:

(a) Units with no required reportable equipment enter rating of "1".

(b) Compare the percentage of required equipment "mission capable". (Blocks 47, 48, Section A/USR) to other criteria in Table 3-4 (below) to determine rating:

TABLE 3-4

<u>Equipment other than Aircraft</u> (Mission Capable)	<u>Aircraft</u>	<u>Rating</u>
90% or greater	75% or greater	1
70% to 89%	50% to 74%	2
60% to 69%	50 to 59%	3
Below 60%	Below 50%	4

(c) Compare the required pacing items mission capable (from Blocks 49, 50 Section A/USR) to the Table 3-4 criteria. Determine rating. Compare with rating in (2) above. Enter highest numerical rating.

(14) Blocks 31-33 (Reason Equipment Readiness Rating Not 1)

Definition: Self-evident

Calculations: If Block 30 does not contain 1, enter equipment readiness code from Section II, Appendix E showing primary factor preventing ER Rating of 1. (Otherwise, leave blank)

(15) Block 34 (Training Rating)

Calculations: See para 3-9 (AR 220-1), for factors which influence training. Compare weeks to complete training (Block 51, Section A) with Table 3-5 and determine rating.

TABLE 3-5  
(Weeks to Complete Training)

<u>Weeks</u>	<u>Rating</u>
0-2	1
3-4	2
5-6	3
More than 6, X, or E	4

(16) Blocks 35-47 (Reason Training Rating Not 1)

Definition: Self-evident

Calculations: If Block 34 is not 1, enter the training code from Section II, Appendix E (attached) which shows the primary factor inhibiting a higher rating. (Otherwise, leave blank).

(17) Blocks 38-40 (Secondary Reason Overall Rating not 1)

Definition: Self-evident

Calculations: Enter code from Section II, Appendix E representing the secondary factor preventing a higher overall rating. This code may be from the same resource area as the primary factor, but must be a different code..

(18) Blocks 41-43 (Tertiary Reasons Overall Rating not 1)

Definition: Self-evident

Calculations: Enter a code from Section II, Appendix E representing the tertiary factor that prevents a higher overall rating. (It may be from the same resource area as the primary or secondary factor, but cannot be the same code.

(19) Block 44 (Projected Overall Rating)

Definition: Self-evident

Calculations: If a change in overall unit rating can be forecasted, enter that rating in Block 44. If a prior forecasted entry is no longer valid, enter numeric sign (#).

(20) Blocks 45-50 - Projected Date of change in Overall Rating

Definition: Self-evident

Calculations: If Block 44 contains an entry, enter the date of the projected change. If Block 44 is blank, or contains a sign, leave blank.

(21) Block 51 (Authorized Level of Organization (ALO))

Definition: Self evident

Calculations: Enter the unit ALO with the following exceptions:

- (1) All units with ALO > 4, enter 4.
- (2) Type B units, or units organized ALO B, when unit documents do not show a numeric ALO, enter 4.

(22) Block 52 (Reason for organization less than ALO 1)

Definition: Self-evident

Calculations: Enter P or S if an ALO different from 1 is caused by reduced personnel (P) or equipment (S) authorizations. If "1" is entered in Block 51, leave blank.

(23) Blocks 53-58 (Date of Report)

Calculations: Enter in Blocks 53-58 the "as of" date of report or date of change, if applicable." In Blocks 53 through 54, enter the last two digits of the calendar year; In Blocks 55 and 56, enter the month number; in Blocks 57 and 58, enter the day:

(YY MM DD)  
83 10 14

(24) Blocks 59-69 (Leave Blank)

(25) Blocks 70-75 (UIC of command preparing punch cards)

Calculations: Self explanatory

(26) Blocks 76 and 77 (Report type)

Calculations: Enter F and S

(27) Blocks 78-80 (Report Number)

Calculations: HQ preparing the report number is to enter.

## APPENDIX D

### GUIDELINES FOR CHARACTERIZATION OF UNIT STATUS

- D.1. RATING CRITERIA
- D.2. CODES FOR FACTORS INHIBITING ACHIEVEMENT OF HIGHER OVERALL RATING
- D.3. CODES FOR FACTORS INHIBITING ACHIEVEMENT OF HIGHER DETAILED RATINGS.
- D.4. USR PERSONNEL WORKSHEET

# APPENDIX D.1

## RATING CRITERIA

	<u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>
<u>Personnel:</u>				
Strength	Operating strength not less than 95% of full MTOE.	Operating strength not less than 85% of full MTOE.	Operating strength not less than 75% of full MTOE.	Operating strength less than 75% of full MTOE.
MOS	Not less than 86% of full MTOE strength are personnel in the operating strength who are qualified to perform the duties of the position to which assigned.	Not less than 77% of full MTOE strength are personnel in the operating strength who are qualified to perform the duties of the position to which assigned.	Not less than 68% of full MTOE strength are personnel in the operating strength who are qualified to perform the duties of the position to which assigned.	Less than 68% of full MTOE strength are personnel in the operating strength who are qualified to perform the duties of the position to which assigned.
Senior Grade	86% of E5 and above assigned.	77% of E5 and above assigned.	68% of E5 and above assigned.	Less than 68% of E5 and above assigned.
Equipment On Hand	Not less than 90% of full MTOE reportable lines at or above 90% fill and pacing item (PI) at or above 90% fill.	Not less than 90% of full MTOE reportable lines at or above 80% fill and pacing item (PI) at or above 80% fill.	Not less than 90% of full MTOE reportable lines at or above 70% fill and pacing item (PI) at or above 70% fill.	Less than 90% of full MTOE reportable lines at less than 70% fill and pacing item (PI) at or less than 70% fill.

APPENDIX D.1 (cont'd)

RATING CRITERIA

	<u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>
Equipment Status	Average OR rate equals or exceeds 90%.	Average OR rate equals or exceeds 80%.	Average OR rate equals or exceeds 70%.	Over 30% of reportable equipment inoperable. PI OR rate less than 70%.
Pacing item (PI) OR rate must be 90%		PI OR rate between 80 and 90%.	PI OR rate between 70 and 80%.	
Training:				
Div, Bde/ Regt, or Bn/Sqdn	0-2 weeks required to attain a fully trained status.	3-4 weeks required to attain a fully trained status.	5-6 weeks required to attain a fully trained status.	7 plus weeks required to attain a fully trained status.
Company/ Btry or below	0-1 week required to attain a fully trained status.	2 weeks required to attain a fully trained status.	3-4 weeks required to attain a fully trained status.	5 plus weeks required to attain a fully trained status.

APPENDIX D.2

CODES FOR FACTORS INHIBITING ACHIEVEMENT OF  
HIGHER OVERALL RATING

---

CODE	DEFINITION
P	Personnel.
S	Equipment on hand.
R	Equipment readiness (equipment status).
T	Training.
M	Resource allocation by unified/specified commander does not permit a higher rating.
N	Unit authorized level of organization does not permit a higher rating.
X	Commander's subjective judgment. Explanatory remarks must be submitted.

# APPENDIX D.3

## CODES FOR FACTORS INHIBITING ACHIEVEMENT OF HIGHER DETAILER RATING

CATEGORY	CODES	DEFINITION
Personnel	P01	Casualties
	P03	MOS imbalances
	P04	Not MOS qualified
	P06	Organization inactivating
	P08	Organization recently activated/organized
	P09	Personnel levies excessive
	P10	Personnel not combat ready
	P11	Personnel shortage
	P12	Personnel shortage-air defense MOS
	P13	Personnel shortage-armor MOS
	P14	Personnel shortage-artillery MOS
	P15	Personnel shortage-combat crews
	P17	Personnel shortage-deployable personnel
	P18	Personnel shortage-engineer MOS
	P19	Personnel shortage-enlisted
	P20	Personnel shortage-enlisted combat crews
	P22	Personnel shortage-infantry MOS
	P26	Personnel shortage-maintenance
	P29	Personnel shortage-NCO (E5 to E9)
	P30	Personnel shortage (senior NCO's)
	P32	Personnel shortage-officer
	P34	Personnel shortage-01 to 03
	P35	Personnel shortage-04 to 06
	P36	Personnel shortage-pilot
	P37	Personnel shortage-qualified to perform MOS duties to which assigned
	P38	Personnel shortage-signal MOS
	P39	Personnel shortage-warrant officer
	P40	Subordinate organization detached
	P41	Personnel shortage-linguistics
Equipment On Hand	S03	Aircraft in storage
	S05	Equipment on loan
	S06	Aircraft operational loss/combat loss
	S10	Ammunition unserviceable/suspended
	S11	Awaiting critical modification
	S12	Component low density end item unsatisfactory
	S13	Equipment in administrative storage
	S14	Equipment removed
	S15	Missiles inoperative/unserviceable
	S16	Obsolete equipment

APPENDIX D.3 (cont'd)  
 CODES FOR FACTORS INHIBITING ACHIEVEMENT  
 OF HIGHER DETAILER RATING

CATEGORY	CODES	DEFINITION
	S17	Organization inactivating
	S18	Organization recently activated/reorganized
	S19	Radar equipment unavailable
	S20	Spare low-density end item unsatisfactory
	S22	Shortage-ammunition
	S27	Shortage-end item
	S28	Shortage-engineering equipment
	S29	Shortage-general supply equipment
	S31	Shortage-repair parts/spare (ASL/PLL)
	S36	Shortage-special supply equipment
	S37	Shortage-stock supply
	S40	Shortage-supporting equipment
	S42	Shortage-authorized equipment
	S43	Shortage-vehicle(s)
	S45	Shortage-aircraft
	S51	Shortage-missile (SAM)
	S56	Insufficient fuel
	S57	Short-NBC equipment
	S58	Ammunition-failed inspection
	S59	Ammunition-not inspected
	S60	Ammunition-lack of upload exercise
	S61	Ammunition-deficiencies in uploading
	S62	PLL/ASL-shortage on request
	S63	PLL/ASL-shortage not requested
	S64	Pacing item shortage
Equipment Status	R00	Equipment readiness degradations-fuel shortage
	R01	Aircraft grounded safety flight
	R02	Aircraft do not meet mobilization requirements
	R06	Awaiting check and certification
	R09	Damage-battle/combat
	R11	Damage/inoperative-aircraft
	R21	Damage/inoperative-equipment
	R22	Damaged/inoperative-equipment communication
	R23	Damaged/inoperative-generators
	R24	Damaged/inoperative-equipment engineering
	R31	Damaged/inoperative-radar
	R45	Damaged/inoperative-vehicle(s)
	R46	Damaged/inoperative-weapon(s)
	R49	Equipment installation
	R51	Equipment obsolete
	R52	Equipment removal
	R54	Equipment shortage
	R56	Inspection failed
	R58	Insufficient funding
	R60	Maintenance-facilities inadequate
	R61	Maintenance-in progress

# APPENDIX D.3 (cont'd)

## CODES FOR FACTORS INHIBITING ACHIEVEMENT OF HIGHER DETAILER RATING

	R62	Maintenance-scheduled
	R63	Maintenance-unscheduled
	R64	Modification-aircraft/missile
	R71	Not operationally ready supply (NORS)-above organizational maintenance
	R80	Organization/inactivating
	R81	Organization in rotational deployment
	R82	Overhaul-aircraft/missile
	R84	Overhaul-weapons
	R85	Power failure
	R86	Radar unreliable/light/ground check
	R87	Repair-attached organizational equipment
	R88	Repair-generators
	R90	Repair-equipment
	R91	Repair-field maintenance
	R92	Repair-lack proper tools to perform
	R93	Repair-organizational maintenance
	R94	Repair-weapons
	R96	NEC equipment inoperable or uncalibrated
	R97	NEC equipment incomplete or obsolete
	R98	Pacing item inoperative
Training	T01	Administrative deadline equipment
	T02	Deadline rate of major communications/ electronic items restricts training
	T05	Inadequate-school quotas
	T07	Inadequate-training ammunition
	T08	Inadequate-training areas
	T09	Incomplete-exercise/inspections
	T10	Incomplete-firing/proficiency tests
	T11	Insufficient-crews combat-ready
	T15	Insufficient-funding
	T17	Insufficient-pilots combat-ready
	T21	MOS imbalances
	T23	Operational commitments
	T24	Organization activating
	T25	Organization inactivating
	T27	Personnel not combat-ready
	T28	Personnel turnover excessive
	T29	Shortage-amphibious shipping
	T30	Shortage-crew chief
	T31	Shortage-equipment
	T32	Shortage-instructor
	T33	Shortage-instructor pilot aircrew
	T34	Shortage-leadership position personnel
	T35	Shortage-XO senior
	T36	Shortage-officer qualified
	T37	Shortage-personnel
	T38	Shortage-technical skill personnel

# APPENDIX D.3 (cont'd)

## CODES FOR FACTORS INHIBITING ACHIEVEMENT OF HIGHER DETAILER RATING

CATEGORY	CODES	DEFINITION
	T39	Squad/crew qualification low
	T40	Tests-unsatisfactory readiness
	T41	Training incomplete
	T55	Training incomplete-subordinate organization(s) in standby status
	T57	Training incomplete-fuel shortage
	T58	NBC defensive training incomplete
	T59	Training incomplete-personnel diverted to support activities

APPENDIX D.4  
USR PERSONNEL WORK SHEET

16 Apr 11 1982

**DISPOSITION FORM**

Because of this form, use AD 140.15, the proponent agency is TAGCEN.

11

Annex A, Appendix 2  
9th ID Regulation

SUBJECT

UNIT STATUS REPORTING (PERSONNEL WORK SHEET)

T

FROM

DATE

CMT 1

Commander  
9th Inf Div  
ATTN: AFVQ-PE  
Ft Lewis, WA 98433

1. UNIT: \_\_\_\_\_

2. UNIT STRENGTH DATA:                      OFF    WO                      NCO                      EM                      TOTAL    %(5-9)    (1-4)a. ASSIGNED:  
(Line 6a, Block 15,16,17) \_\_\_\_\_b. AVAILABLE MOS TRAINED:  
(Line 6c, Block 20,21) \_\_\_\_\_c. AVAILABLE SR GRADE:  
(Line 6d, Block 22,23) \_\_\_\_\_d. PERSONNEL TURNOVER  
(Line 6e, Block 24,25) \_\_\_\_\_e. AVAILABLE STRENGTH:  
(Line 6b, Block 18,19) \_\_\_\_\_f. TOE/TDA REQUIRED: \_\_\_\_\_ NAg. MTOE: E5 + E6 + E7 + E8 + E9 + WO + OFF = TOTAL

REQD: \_\_\_\_\_

AVAIL: \_\_\_\_\_

3. NUMBER OF FEMALE SOLDIERS ASSIGNED: \_\_\_\_\_

4. NUMBER OF FEMALE SOLDIERS NON DEPLOYABLE DUE TO PREGNANCY: \_\_\_\_\_

5. NOT AVAILABLE: OFF \_\_\_\_\_; WO \_\_\_\_\_; EM(5-9) \_\_\_\_\_; EM(1-4) \_\_\_\_\_

a. TOTAL

b. SEE REVERSE

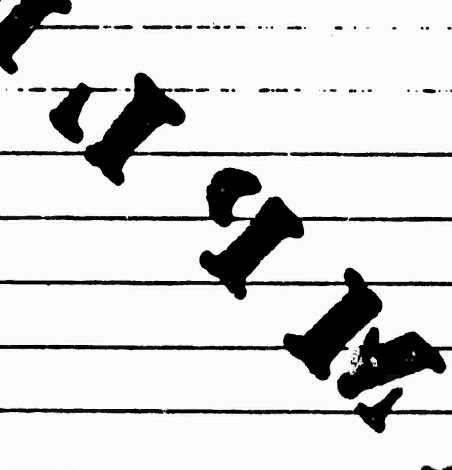
HFL Form 1082  
1 Dec 81Replaces edition dtd 1 Mar 80, which will be used  
till exhausted.

1 F0082

Para 5. cont'd

b. List:

GRADE	NAME	UNIT	PMOS	DMOS	REASON NOT AVAILABLE
-------	------	------	------	------	----------------------



REPORT:

## 6. COMPANY STRENGTH REPORT:

<u>COMPANY</u>	<u>REQUIRED STRENGTH</u>	<u>AVAILABLE STRENGTH</u>	<u>NUMBER WORKING BATTALION</u>	<u>N WORKING BRIGADE</u>	<u>NUMBER WORKING POST</u>	<u>OTHER</u>
TOTAL						

7. REMARKS:

APPENDIX E

MODIFIED TABLE OF ORGANIZATION AND EQUIPMENT FOR 1/11 FA BATTALION,

DIVISION ARTILLERY, 9TH INFANTRY DIVISION,

FORT LEWIS, WASHINGTON

AS OF 30 MARCH 1983

E-0

DEPARTMENT OF THE ARMY  
Headquarters, United States Army Forces Command  
Fort McPherson, Georgia 30330

PERMANENT ORDERS 49-24

30 March 1983

1ST BATTALION, 11TH FIELD ARTILLERY, FC, (WDGLAA), FORT LEWIS, WASHINGTON  
98433

Following organization/unit action directed.

Action: Unit REORGANIZED

Assigned to: United States Army Forces Command

Mission: As stated in Section I, TOE 06125H

Effective date: 16 December 1983

Military structure strength: 38 Off; 2 WO; 591 Enl; 631 Aggr

Military authorized strength: 37 Off; 2 WO; 526 Enl; 565 Aggr

Civilian structure strength: Not applicable

Civilian authorized strength: Not applicable

Accounting classification: Appropriate allotments will be obligated to the extent necessary (AR 37-100 series).

Authority: AR 310-49, Para 2-11

Additional instructions: a. MTOE: 06125HFC08 FC 1084 (See Incl 1)

b. SRC: 06125H0000200

c. TPSN: 03009-11

d. ALO: 2

e. Equipment required and not on hand will be requisitioned in accordance with AR 710-2 and FORSCOM Reg 700-1. Excess equipment will be disposed of as prescribed by AR 710-2 and FORSCOM Reg 700-1.

f. Personnel required will be provided in accordance with existing directives. Surplus personnel will be reassigned in accordance with current procedures.

Format: 740

FOR THE COMMANDER:

2 Incl  
1 as  
2 MTOE w/Batch Analysis



KENNETH L. WALL

Colonel, GS  
Assistant Adjutant General

PERMANENT ORDERS 49-24 , Headquarters, United States Army Forces Command,  
Fort McPherson, Georgia, 30 Mar 83 , continued.

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CDR, I Corps & Ft Lewis, ATTN: AFZH-CM-MMD, Ft Lewis, WA 98433 (50)

<u>UIC/MRIC</u>	<u>SUBUNIT DESIGNATION</u>	<u>STANDARD REQUIRE- MENTS CODE</u>	<u>STRUCTURE AND AUTHORIZED STRENGTH</u>			
			<u>OFF</u>	<u>WO</u>	<u>ENL</u>	<u>AGGP</u>
WDGLTO	HNB	06126H00002200	S 27	1	100	227
			A 26	1	183	210
WDGLAO	A BTRY	06127H00002200	S 3	0	106	109
			A 3	0	91	94
WDGLBO	B BTRY	06127H00002200	S 3	0	106	109
			A 3	0	91	94
WDGLCO	C BTRY	06127H00002200	S 3	0	106	109
			A 3	0	91	94
WDCISO	SVC BTRY	06129H00002200	S 2	1	74	77
			A 2	1	70	73
PARENT UNIT TOTALS			S 38	2	591	631
			A 37	2	526	565

INCL 1

PREPARED ON DATE 830325  
PCII NO ANV-901  
PAGE 1

2234 MRS. MODIFICATION TABLE OF ORGANIZATION AND EQUIPMENT (MTOE)

MTOE 06125HFC08  
CCNUM FC1084  
CATEGORY 1 UNIT TYPE A

HEADQUARTERS  
U. S. ARMY FORCES COMMAND  
FA BN. 155MM TOWED (DS)

# SECTION 1: ORGANIZATION

1. AR 725-1 AND TOE CONSOLIDATED CHANGE TABLES THRU 300-70 HAVE BEEN APPLIED AT ALO-2. UNIT IS CATEGORY 1, TYPE B.  
AD ASSETS (PERS AND EQUIP), PARA 116 AND 117, TRANSFERRED TO 44325MFC01 FC1083. GLD ADDED AT PARA 118. FIST ADJUSTED.  
AR 725-1 AND T-TOE TAPE PROVIDED BY HQ TRADOC (JAN 83)  
APPLIED. UNIT ORGANIZED AT ALO-1 OR TRANSITION LEVEL. THE ORGANIZATION DEPICTED HEREIN REFLECTS THE HTLD WORKING GROUP HELD 22-25 FEB 83 AT HQ FORSCOM AND IS BEING PROVIDED AS AN AUTHORIZATION DOCUMENT FOR THE TEST OF THE HTLD CONCEPT.  
202611300000

## 2. PARENT UNITS ORGANIZED UNDER THIS MTOE:

UIC	UNIT IDENTIFICATION	EFFECTIVE DATE	CMD OF ASGMT	ITAADS CODE
WDGLAA	1ST BN 11TH FIELD ARTILLERY	831216	FCFC	FL

SUPERSESSIONS: THIS MTOE SUPERSEDES MTOE 06125HFC08 CCNUM FC2083

LAST PAGE OF SECTION 1

SUB-UNIT MULTI-PAR PLIER		UNIT TITLE		SRC		SUB-UNIT DESIGNATOR	
100	1	FA BN, 155MM TOWED (DS)		06125H00000200	AA		
200	3	FA BTRY, 155MM T, FA BN		06126H00000200	TO		
300	1	SVC BTRY, 155MM T, FA BN		06127H00000200	AO BO CO		
				06129H00000200	SU		

MULTI-PAR LINE		DESCRIPTION		GR		MOS		ASI/LIC BR ID		SUB-UNIT PARENT-UNIT LINE TOTAL		REQ AUTH		PARENT-UNIT NET CHANGE REQ AUTH		RMKS	
100	1	184B 155MM T, FA BN		05	13E00	SH		FA O	1	1	1	1	1			11	
101	00	BN COMMAND SECTION		04	13E00			FA O	1	1	1	1	1			11	
101	01	BATTALION COMMANDER		04	13E00			FA O	1	1	1	1	1			XL	XR
101	02	EXECUTIVE OFFICER		03	25A00			SC O	1	1	1	1	1				
101	04	C-E STAFF OFFICER		03	13E91			NO O	1	1	1	1	1				
101	05	MOTOR OFFICER		03	13E41			FA O	1	1	1	1	1				
101	06	S1		03	13E35	SH SM		FA O	1	1	1	1	1			XH	
101	07	S2		E9	00Z50			NC E	1	1	1	1	1				
101	08	COMD SERGEANT MAJOR		E3	13B10			E	2	2	2	2	2			XK	
101	09	VEHICLE DRIVER															
PARAGRAPH TOTAL																	
102	00	OPS/INTEL PLATOON HQ		03	13E00	SH		FA O	1	1	1	1	1			XQ	
102	01	PLANS-OPERATIONS OFF		E8	13Y50			NC E	1	1	1	1	1			OB	
102	02	OPERATIONS SERGEANT		E7	13C40			NC E	1	1	1	1	1				
102	03	FIRE CONTROL NCO		E6	54E30			NC E	1	1	1	1	1				
102	04	CHEMICAL STAFF NCO		E4	71L10			E	1	1	1	1	1			XK	
102	05	CLERK TYPIST		E4	13C10			E	2	2	2	2	2			XK	
102	06	TF OPERATIONS SP		E4	36K10			E	1	1	1	1	1			XE	
102	07	TAC WIRE OPNS SPEC															
PARAGRAPH TOTAL																	
103	00	OPERATIONS-FO SEC		03	13E00	SH		FA O	1	1	1	1	1				
103	01	FIRE DIRECTION OFF		E6	13C30			NC E	2	2	2	2	2				
103	02	TF COMPUTER OPERATOR		E5	13C20			E	2	2	2	2	2				
103	03	TF EQUIP SP															XK

SECTION II PERSONNEL ALLOWANCE

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PARA LINE	MULTI-PLIER	DESCRIPTION	GR	MOS	ASI/LIC BR ID	SUB-UNIT LINE TOTAL			PARENT-UNIT LINE TOTAL			PARENT-UNIT NET CHANGE		RMKS
						REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH	
103	04	TF OPERATIONS CP	E4	13C10	E	1	1	1	1	1	1			XK
103	05	TF OPERATIONS SP	E3	13C10	E	2	2	2	2	2	2			O1 XK
		PARAGRAPH TOTAL				8	8	8	8					
104	00	INTELLIGENCE SECTION												
104	01	TARGETING OFFICER	O3	33E35	SM FA O	1	1	1	1	1	1			XP
104	02	INTEL OFFICER (BICC)	O2	35A00	MI O	1	1	1	1	1	1			
104	03	INTELLIGENCE SERGEANT	E8	13W50	NC E	1	1	1	1	1	1			
104	04	CMST INTEL ANAL (BICC)	E6	96B30	NC E	1	1	1	1	1	1			
104	05	INTEL SPECIALIST	E4	17C10	E	1	0	1	0	1	0			O1 XK
		PARAGRAPH TOTAL				5	4	5	4					
105	00	SURVEY PLATOON HQ												
105	01	RECON-SURVEY OFFICER	O2	13D00	FA O	1	1	1	1	1	1			
105	02	PLATOON SERGEANT	E7	82C40	NC E	1	1	1	1	1	1			
105	03	VEHICLE DRIVER	E3	82C10	E	1	1	1	1	1	1			XK
		PARAGRAPH TOTAL				3	3	3	3					
106	00	SURVEY SECTION												
106	01	SECTION CHIEF	E6	82C30	NC E	1	1	1	1	1	1			
106	02	SURVEY COMPUTER	E5	82C20	E	1	1	1	1	1	1			
106	03	INSTRUMENT OP	E4	82C10	E	1	1	1	1	1	1			O1 XK
106	04	SURVEY COMPT/RECORDER	E4	82C10	E	1	1	1	1	1	1			
106	05	ROOMMAN-TAPEMAN	E3	82C10	E	1	1	1	1	1	1			O1 XK
106	06	CHIEF OF PADS PARTY	E5	82C20	E	1	1	1	1	1	1			
106	07	PADS VEHICLE DRIVER	E3	82C10	E	1	1	1	1	1	1			XK
		PARAGRAPH TOTAL				7	7	7	7					
107	00	PERS/ADMIN CEN (PAC)												
107	01	PAC SUPERVISOR	E7	75Z40	NC E	1	1	1	1	1	1			XB
107	02	PERSONNEL STAFF MCO	E6	75B30	NC E	1	1	1	1	1	1			O7 XC
107	03	RETENTION MCO	E6	04R30	NC E	1	1	1	1	1	1			
107	04	LEGAL CLERK	E5	71D20	E	1	1	1	1	1	1			
107	05	MAIL DEL SP	F5	71L20	F	0	0	0	0	0	0			

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## SECTION II PERSONNEL ALLOWANCE

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PARA LINE	MULTI-PLIER	DESCRIPTION	GR	MOS	AST/LIC	BR	ID	SUB-UNIT			PARENT-UNIT			PARENT-UNIT NET CHANGE	RMKS
								LINE REQ	TOTAL AUTH	LINE REQ	TOTAL AUTH	REQ	AUTH		
107	06	PAC CLERK	E5	75820			E	1	1	1	1				
107	07	CLERK TYPIST	E4	71110			E	1	1	1	1				XB
107	08	JOURNALIST	E4	71010			E	0	0	0	0				
107	09	PAC CLERK	E4	75810			E	1	1	1	1				XB
107	10	PAC CLERK	E3	75810			E	2	1	2	1				O1 XB
PARAGRAPH TOTAL															
108	00	MVR BDE FIRE SPT SEC						9	8	9	8				
108	01	FIRE SUPPORT OFFICER	O4	13E00	SH		FA O	1	1	1	1				11
108	02	FIRE SUPPORT SERGEANT	E7	13F40	X3		NC E	1	1	1	1				
108	03	FIRE SUPPORT SP	E4	13F10	X3		E	2	2	2	2				O1 XK
PARAGRAPH TOTAL															
109	00	3 MVR BN FS SECTION						4	4	4	4				
109	01	FIRE SUPPORT OFFICER	O3	13E00	SH		FA O	3	3	3	3				11
109	02	FIRE SUPPORT SERGEANT	E7	13F40	X3		NC E	3	3	3	3				
109	03	FIRE SUPPORT SP	E4	13F10	X3		E	6	6	6	6				O1 XK
PARAGRAPH TOTAL															
110	00	9 INF CO FIST						12	12	12	12				
110	01	FIRE SUPPORT TM CHIEF	O2	13E00			FA O	9	9	9	9				11
110	02	FIRE SUPPORT SERGEANT	E6	13F30			NC E	9	9	9	9				11
110	03	FORWARD OBSERVER	E5	13F20			NC E	27	27	27	27				XK
110	04	FIRE SUPPORT SPEC	E4	13F10			E	9	9	9	9				O1
110	05	RADIO TELEPHONE OP	E3	13F10			E	27	27	27	27				
PARAGRAPH TOTAL															
111	00	MEDICAL SECTION						81	81	81	81				
111	01	PHYSICIANS ASSISTANT	W0	O11A0			W	1	1	1	1				11
111	02	SECTION SERGEANT	E6	91B30			NC E	1	1	1	1				
111	03	PRACTICAL NURSE	E6	91C30			E	1	1	1	1				
111	04	MEDICAL AIDF	E5	91B20			E	1	1	1	1				
111	05	BATTERY AIDMAN	E4	91B10			E	4	3	4	3				11
111	06	MEDICAL AIDE	E4	91B10			E	1	1	1	1				

SECTION 11 PERSONNEL ALLOWANCE

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MULTI - PARA LINE	PLIER	DESCRIPTION	GR	MOS	ASI/LIC BR ID	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
						LINE TOTAL	REQ AUTH	LINE TOTAL	REQ AUTH	NET CHANGE	REQ AUTH	
111	07	AMBULANCE ATTND/DRIVER	E3	91B10	E	2	1	2	1			
		PARAGRAPH TOTAL				11	9	11	9			
112	00	COMM PLATOON HQ										
112	01	PLATOON LEADER	O2	25A00	SC O	1	0	1	0			XJ
112	02	TAC COMMUNICATIONS CH	E8	31V50	NC E	1	1	1	1			
112	03	TAC COMM SYS OP/MECH	E5	31V20	NC E	2	2	2	2			
112	04	TAC WIRE OPNS SP	E4	36K10	E	1	1	1	1			O1 XO
112	05	TAC COMM SYS OP/MECH	E3	31V10	F7	5	4	5	4			O1 XO
112	06	TAC WIRE OPNS SP	E3	36K10	E	1	0	1	0			XK
112	07	VEHICLE DRIVER	E3	36K10	E	1	0	1	0			
		PARAGRAPH TOTAL				12	8	12	8			
113	00	WIRE SECTION										
113	01	SECTION CHIEF	E6	31V30	NC E	1	1	1	1			
113	02	WIRE TEAM CHIEF	E5	36K20	NC E	4	4	4	4			
113	03	TAC WIRE OPNS SP	E4	36K10	E	8	6	8	6			XF
113	04	TAC WIRE OPNS SP	E3	36K10	E	11	8	11	8			XG O1
		PARAGRAPH TOTAL				24	19	24	19			
114	00	RADIO 11 SECTION										
114	01	RATT OPNS SUPERVISOR	E6	05C30	NC E	1	1	1	1			
114	02	RATT OPNS TEAM CHIEF	E5	05C20	NC E	2	2	2	2			
114	03	RADIO 11 OPERATOR	E4	05C10	E	2	2	2	2			O1
114	04	RADIO 11 OPERATOR	E3	05C10	E	2	1	2	1			
		PARAGRAPH TOTAL				7	6	7	6			
115	00	BATTERY HEADQUARTERS										
115	01	BATTERY COMMANDER	O3	13X00	FA O	1	1	1	1			11
115	02	FIRST SERGEANT	E8	13V5M	NC E	1	1	1	1			10
115	03	FOOD SERVICE SERGEANT	E7	94B40	NC E	1	1	1	1			
115	04	FIRST COOK	E6	94B30	NC E	1	1	1	1			
115	05	MOTOR SERGEANT	E6	63B30	NC E	1	1	1	1			
115	06	SUPPLY SERGEANT	E6	76Y30	NC E	1	1	1	1			



PARA LINE	MULTI-PLIER	DESCRIPTION	GR	MOS	ASI/LIC BR ID	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
						LINE	TOTAL	LINE	TOTAL	NET CHANGE		
201	13	LT WVEH/PWR GEN MECH	E4	63810	E	1	1	3	3			O1
201	14	PLL CLERK	E4	76C10	E	1	1	3	3			
201	15	COOK	E3	94810	E	1	0	3	0			
201	16	LT WVEH/PWR GEN MECH	E3	63810	E	1	1	3	3			
201	17	VEHICLE DRIVER	E3	13810	E	1	0	3	0			XK
PARAGRAPH TOTAL						17	14	51	42			
202	00	COMMUNICATIONS SEC										
202	01	TAC COMM CHIEF	E6	31V30	NC E	1	1	3	3			XE
202	02	TAC WIRE OPS SPEC	E4	36K10	E	1	1	3	3			O1 XE
202	03	TAC WIRE OPS SPEC	E3	36K10	E	1	1	3	3			
PARAGRAPH TOTAL						3	3	9	9			
203	00	FIRING BATTERY HQ										
203	01	EXECUTIVE OFFICER	O2	13E00	FA O	1	1	3	3			
203	02	FIRE DIRECTION OFF	O2	13E00	FA O	1	1	3	3			XN
203	03	CM/FIRING BATTERY	E7	13840	NC E	1	1	3	3			
203	04	GUNNERY SERGEANT	E7	13840	NC E	1	1	3	3			
203	05	CM FIRE DIR CMPT	E6	13E30	NC E	1	1	3	3			
203	06	SR FIRE DIRECTION SP	E5	13E20	NC E	1	1	3	3			O1 XK
203	07	FIRE DIRECTION SPEC	E4	13E10	E	2	2	6	6			O1
203	08	FA WPNS MECH	E4	13810	E	1	0	3	0			O1 XK
203	09	FIRE DIRECTION SP	E3	13E10	E	2	2	6	6			
PARAGRAPH TOTAL						11	10	33	30			
204	00	6 HOWITZER SECTIONS										
204	01	CHIEF OF SECTION	E6	13830	NC E	6	6	18	18			
204	02	GUNNER	E5	13820	NC E	6	6	18	18			
204	03	ASSISTANT GUNNER	E4	13810	E	6	6	18	18			
204	04	CANNONEER/ASSEMBLER	E4	13810	E	6	6	18	18			
204	05	PRIME MOVER DRIVER	E4	13810	E	6	6	18	18			
204	06	CANNONEER	E3	13810	E	36	30	108	90			
PARAGRAPH TOTAL						60	55	198	165			

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PARA	LINE	MULTI-PLIER	DESCRIPTION	GR	MOS	ASI/LIC BR ID	SUB-UNIT LINE TOTAL		PARENT-UNIT LINE TOTAL		PARENT-UNIT NET CHANGE		RANKS
							REQ	AUTH	REQ	AUTH	REQ	AUTH	
205	00		AMMUNITION SECTION	E5	13B20	NC E	1	1	3	3			
205	01		AMMUNITION SERGEANT	E4	13B10	E	5	5	15	15			O1
205	02		AMMUNITION SPECIALIST	E3	13B10	E	6	6	18	18			O1
205	03		AMMUNITION HANDLER										
			PARAGRAPH TOTAL				12	12	36	36			
			SUB-UNIT TOTAL				109	94	327	282			
300		1	SVC BTRY. 155MM T. FA BN										
301	00		BATTERY HEADQUARTERS	O3	12A92	FA O	1	1	1	1			11 XS
301	01		BATTERY COMMANDER	E8	13V5M	NC E	1	1	1	1			10
301	02		FIRST SERGEANT	E6	94B30	NC E	1	1	1	1			
301	03		FOOD SERVICE SGT	E6	63B30	NC E	1	1	1	1			
301	04		MOTOR SERGEANT	E6	76Y30	NC E	1	1	1	1			
301	05		SUPPLY SERGEANT	E5	63B20	NC E	1	1	1	1			
301	06		LT WVEH/PWR GEN MECH	E5	94B20	E	1	1	1	1			
301	07		FIRST COOK	E5	75B20	E	0	0	0	0			XA
301	08		UNIT CLERK	E4	76Y10	E	1	1	1	1			O1 XM
301	09		ARMORER	E4	94B10	E	1	1	1	1			
301	10		COOK	E4	76C10	E	1	1	1	1			
301	11		EQUIP MAINT CLERK	E4	63B10	E	1	1	1	1			
301	12		LT WVEH/PWR GEN MECH	E4	36X10	E	1	1	1	1			O1
301	13		TAC WIRE OPS SPEC	E3	94B10	E	1	1	1	1			
301	14		COOK	E3	13B10	E	2	2	2	2			XA
301	15		LT WVEH/PWR GEN MECH	E3	13B10	E	1	0	1	0			
301	16		VEHICLE DRIVER	E3	54E20	NC E	1	1	1	1			
301	17		NBC OPNS NCO										
			PARAGRAPH TOTAL				17	16	17	16			
302	00		BATTALION SUPPLY SEC										
302	01		SUPPLY SERGEANT	E7	76Y40	NC E	1	1	1	1			
302	02		GENERAL SUPPLY SP	E5	76Y20	NC E	1	1	1	1			
302	03		GENERAL SUPPLY SP	E4	76Y10	E	2	2	2	2			
302	04		GENERAL SUPPLY SP	E3	76Y10	E	1	0	1	0			O1
302	05		POL LIGHT VEH OP	E3	76M10	E	2	2	2	2			O1

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SECTION II PERSONNEL ALLOWANCE

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PARA LINE	MULTI-PLIER	DESCRIPTION	GR	MOS	ASI/LIC BR ID	SUB-UNIT			PARENT-UNIT			PARENT-UNIT			RMKS
						LINE TOTAL	REQ	AUTH	LINE TOTAL	REQ	AUTH	NET CHANGE	REQ	AUTH	
BATTALION MAINT SEC															
303 00		AUTO MAINTENANCE TECH	WO	630A0	W	1	1	1	1	1	1				
303 01		LT WVEH/PWR GEN MECH	E5	63B20	NC E	2	2	2	2	2	2				
303 02		MOTOR SERGEANT	E7	63B40	NC E	1	1	1	1	1	1				
303 03		EQUIP REC AND PARTS SP	E4	76C10	E	1	1	1	1	1	1				
303 04		LT WVEH/PWR GEN MECH	E4	63B10	E	3	3	3	3	3	3				
303 05		PLL CLERK	E4	76C10	E	1	1	1	1	1	1				01
303 06		WRECKER OPERATOR	E4	63B10	E	1	1	1	1	1	1				
303 07		WELDER	E4	44B10	E	1	1	1	1	1	1				
303 08		LT WVEH/PWR GEN MECH	E4	63B10	E	1	1	1	1	1	1				01
303 09			E3	63B10	E	2	2	2	2	2	2				
PARAGRAPH TOTAL						13	13	13	13	13	13				
AMMUNITION PLATOON HQ															
304 00		AMMUNITION OFFICER	O2	13A00	FA O	1	1	1	1	1	1				
304 01		AMMO SERGEANT	E7	13B40	NC E	1	1	1	1	1	1				
304 02		AMMUNITION CLERK	E4	71L10	E	1	1	1	1	1	1				01 XK
304 03		AMMUNITION SPECIALIST	E4	13B10	E	1	1	1	1	1	1				
304 04						4	4	4	4	4	4				
PARAGRAPH TOTAL						4	4	4	4	4	4				
3 AMMUNITION SECTIONS															
305 00		SECTION CHIEF	E6	13B30	NC E	3	3	3	3	3	3				
305 01		AMMUNITION SPECIALIST	E4	13B10	E	15	15	15	15	15	15				
305 02		AMMUNITION HANDLER	E3	13B10	E	18	18	18	18	18	18				01
305 03						36	36	36	36	36	36				
PARAGRAPH TOTAL						77	73	77	77	77	73				
SUB UNIT TOTAL						413	377	631	631	565	565				
PARENT-UNIT TOTAL						0	0	0	0	0	0				
OTHER THAN ARMY															

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SECTION II PERSONNEL ALLOWANCE

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REMARKS: XA XB XC XD XE XF XG XH XJ XK XL XM XN XP XQ XR XS XO OI O7 O8 10 11

AUTH ONLY WHEN AUTO JUST IS PROV FOR NOT IMPL PAC  
 POS AUTH ONLY WHEN PAC IS IMPL. ADEQ JUST MUST BE PROV  
 FOR NOT IMPL PAC  
 E7 AUTH WHEN PAC IS NOT IMPL. SEE RMK XB  
 PRIMARY AUTH AS MESSAGE CLERK  
 PRIMARY DUTY AS SWITCHBOARD OP  
 ONE HAS PRIMARY DUTY AS SWITCHBOARD OP  
 TWO HAS PRIMARY DUTY AS SWITCHBOARD OP  
 ALSO INFO OFF  
 ALSO BATTERY EXECUTIVE OFF  
 ALSO RADIO OP  
 RMKS SH & SM APPLY TO THIS POS  
 ALSO SUPPLY ASST  
 ALSO BTRY MTR OFF AND BTRY RECON OFF  
 ALSO ASST S2  
 ALSO ASST S3  
 ALSO OPSEC OFF  
 ALSO S4 AND MUNITIONS OFF  
 ALSO LIGHT VEH OVR  
 ALSO INFO NCO  
 ALSO EDUC NCO  
 ALSO CAREER COUNSELOR  
 ARMO W/PISTOL, AUTO CAL 45

ASI/LIC: F7  
 F7 FIELD ARTILLERY DIGITAL AUTOMATIC COMPUTER (FADAC) MAINTENAN  
 CE QUALIFIED  
 X3 TACFIRE REMOTE TERMINAL OPERATOR QUALIFIED  
 SH QUALIFIED FOR NUCLEAR AND CHEMICAL WEAPONS TARGET ANALYSIS A  
 SM NO NUCLEAR VULNERABILITY ASSESSMENTS  
 STAFF OFFICER IN COMBAT, COMBAT SUPPORT BN, BDE. GP. DIV OR  
 CORPS. QUALIFIED IN ELECTRONIC WARFARE

RECAPITULATION BY IDENTITY

	SUB-UNIT PARA 100		SUB-UNIT PARA 200		SUB-UNIT PARA 300		PARENT UNIT TOTAL	
	REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH
OFFICERS	27	26	3	3	2	2	38	37
WARRANT OFFICERS	1	1	0	0	1	1	2	2
ENLISTED	189	183	106	91	74	70	591	526
TOTAL	227	210	109	94	77	73	631	565

RECAPITULATION BY GRADE, MOS, ASI/LIC AND BRANCH

GR	MOS	ASI/ LIC	BR	SUB-UNIT PARA 100 REQ	SUB-UNIT PARA 200 AUTH	SUR-UNIT PARA 300 REQ	PARENT UNIT TOTAL REQ	AUTH
OFFICERS								
05	13E00	SM	FA	1	1	0	1	1
05	TOTAL			1	1	0	1	1
04	13E00		FA	2	2	0	2	2
04	13E00	SM	FA	1	1	0	1	1
04	TOTAL			3	3	0	3	3
03	13A92		FA	0	0	1	1	1
03	13E00	SM	FA	5	1	0	6	6
03	13E35	SM	SM	2	0	0	2	2
03	13E41		FA	1	0	0	1	1
03	13E91		NO	1	0	0	1	1
03	13X00		FA	1	0	0	1	1
03	25A00		SC	1	0	0	1	1
03	TOTAL			11	11	1	15	15
02	13A00		FA	0	0	1	1	1
02	13D00		FA	1	0	0	1	1
02	13E00		FA	9	2	0	15	15
02	25A00		SC	1	0	0	1	0
02	35A00		MI	1	0	0	1	1
02	TOTAL			12	2	1	19	18
TOTAL OFFICERS				27	3	2	38	37

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SECTION II PERSONNEL ALLOWANCE

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RECAPITULATION BY GRADE, MOS, ASI/LIC AND BRANCH

GR	MOS	ASI/ LIC	BR	SUB-UNIT PARA 100 REQ AUTH	SUB-UNIT PARA 200 REQ AUTH	SUB-UNIT PARA 300 REQ AUTH	PARENT UNIT TOTAL REQ AUTH
WARRANT OFFICERS							
WO	011A0			1	0	0	1
	63030			0	0	1	1
WO	TOTAL			1	0	1	2
TOTAL WARRANT OFFICERS				1	0	1	2
ENLISTED							
E9	00750		NC	1	0	0	1
E9	TOTAL			1	0	0	1
E8	13W50		NC	1	0	0	1
	13V5M		NC	1	1	1	5
	13V50		NC	1	0	0	1
	31V50		NC	1	0	0	1
E8	TOTAL			4	1	1	8
E7	12B40		NC	0	2	1	7
	13C40		NC	1	0	0	1
	13F40		NC	4	0	0	4
	63B40		NC	0	0	1	1
	75240		NC	1	0	0	1
	76V40		NC	0	0	1	1
	82C40		NC	1	0	0	1
	94B40		NC	1	0	0	1
E7	TOTAL			8	2	3	17
E6	00R30		NC	1	0	0	1
	05C30		NC	1	0	0	1
	13B30		NC	0	6	3	21
	13C30		NC	2	0	0	2
	13E30		NC	0	1	0	3
	13F30		NC	9	0	0	9
	31V30		NC	1	1	0	4

RECAPITULATION BY GRADE, MOS, ASI/LIC AND BRANCH

C/P	MOS	ASI/ LIC	BR	SUB-UNIT PARA 100			SUB-UNIT PARA 200			SUB-UNIT PARA 300			PARENT UNIT TOTAL		
				REQ	AUTH		REQ	AUTH		REQ	AUTH		REQ	AUTH	
E6	54E30		NC	1	1		0	0		0	0		1	1	
	63B30		NC	1	1		1	1		1	1		5	5	
	75B30		NC	1	1		0	0		0	0		1	1	
	76V30		NC	1	1		1	1		1	1		5	5	
	82C30		NC	1	1		0	0		0	0		1	1	
	91B30		NC	1	1		0	0		0	0		1	1	
	91C30		NC	1	1		0	0		0	0		1	1	
E6	94B30		NC	1	1		1	1		1	1		5	5	
	96B30		NC	1	1		0	0		0	0		1	1	
				23	23		11	11		6	6		62	62	
	TOTAL														
E5	05C20		NC	2	2		0	0		0	0		2	2	
	13B20		NC	0	0		7	7		0	0		21	21	
	13C20		NC	2	2		0	0		0	0		2	2	
	13E20		NC	0	0		1	1		0	0		3	3	
	13F20		NC	30	30		0	0		0	0		30	30	
	31V20	F7	NC	2	2		0	0		0	0		2	2	
	36K20		NC	4	4		0	0		0	0		4	4	
	54E20		NC	0	0		1	1		1	1		4	4	
	63B20		NC	1	1		1	1		3	3		7	7	
	71D20		NC	1	1		0	0		0	0		1	1	
	71L20		NC	0	0		0	0		0	0		0	0	
	75B20		NC	1	1		0	0		0	0		1	1	
	76V20		NC	0	0		0	0		1	1		1	1	
	82C20		NC	2	2		0	0		0	0		2	2	
	91B20		NC	1	1		0	0		0	0		1	1	
	94B20		NC	1	1		1	1		1	1		5	5	
	TOTAL			47	47		11	11		6	6		86	86	
E4	05C10			2	2		0	0		0	0		2	2	
	13B10			0	0		24	24		18	18		88	88	
	13C10			3	3		0	0		0	0		3	3	
	13E10			0	0		2	2		0	0		6	6	
	13F10			12	12		0	0		0	0		12	12	
	13F10 X3			8	8		0	0		0	0		8	8	
	17C10			1	1		0	0		0	0		1	1	

RECAPITULATION BY GRADE, MOS, ASI/LIC AND BRANCH

GR	MOS	ASI/ LIC	BR	SUB-UNIT PARA 100		SUB-UNIT PARA 200		SUB-UNIT PARA 300		PARENT UNIT TOTAL	
				REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH
E4	36K10			10	8	1	1	1	1	14	12
	44B10			0	0	0	0	1	1	1	1
	63B10			2	1	1	1	5	5	10	9
	71L10			2	2	0	0	1	1	3	3
	71Q10			0	0	0	0	0	0	0	0
	75B10			1	1	0	0	0	0	1	1
	76C10			2	2	2	2	3	3	11	11
	76Y10			1	1	1	1	3	3	7	7
	82C10			2	2	0	0	0	0	2	2
	91B10			5	4	0	0	0	0	5	4
E4	94B10			2	2	2	1	1	1	9	6
	TOTAL			53	48	33	26	31	31	183	157
E3	05C10			2	1	0	0	0	0	2	1
	17B10			3	2	43	36	19	16	151	126
	13C10			2	2	0	0	0	0	2	2
	13E10			0	0	2	2	0	0	6	6
	13F10			27	27	0	0	0	0	27	27
	31V10	F7		5	4	0	0	0	0	5	4
	36K10			13	8	1	1	0	0	16	11
	63B10			2	2	1	1	4	4	9	9
	75B10			2	1	0	0	0	0	2	1
	76Y10			0	0	0	0	2	2	2	2
E3	76Y10			1	0	0	0	1	0	2	0
	82C10			3	3	0	0	0	0	3	3
	91B10			2	1	0	0	0	0	2	1
	94B10			1	1	1	0	0	0	5	2
	TOTAL			63	52	48	40	27	23	234	195
TOTAL ENLISTED				199	183	106	91	74	70	591	526
TOTAL MTOE				227	210	109	94	77	73	631	565

LAST PAGE OF SECTION II

PARA LIN	MULTI- PLIER	ERC	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
				REQ	AUTH	LINE TOTAL	REQ	AUTH	NET CHANGE	
100	1		144B 155MM T. FA BN							
101		B	BN COMMAND SECTION	2	2	2	2	2		
101		B	BINOCULAR : MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	2	2	2	2	2		
101		B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	2	2	2	2	2		
101		B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	2	2	2	2	2		
101		B	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	2	2	2	2	2		
101		A	INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1	2	2	2	2	2		
101		A	INSTALLATION KIT: MK-1306/VRC-47 F/AN/VRC-47 IN M151	1	1	1	1	1		
101		A	INSTALLATION KIT: MK-1838VRC F/KY-57 W/AN/VRC-46 IN M151A1	2	2	2	2	2		
101		A	INSTL KIT: MK-1839VRC F/KY-57 W/AN/VRC-12 OR AN/VRC-47 IN M151	1	1	1	1	1		
101		C	LOCKING DEVICE ATOMIC WEAPON TRAINING: XM78	1	1	1	1	1		
101		A	NIGHT VISION GOOGLES: AN/PVS-5	1	1	1	1	1		
101		C	PROJECTILE ATOMIC 155MM TRAINING: M455	1	1	1	1	1		
101		A	RADIO SET: AN/VRC-46	2	2	2	2	2		233
101		A	RADIO SET: AN/VRC-47	1	1	1	1	1		
101		B	RADIO TEST SET: AN/PRM-34(1)	1	1	1	1	1		
101		A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	4	4	4	4	4		
101		A	POWER SUPPLY: VEHICLE HYPER7/TSEC	4	4	4	4	4		
101		B	TRAILER CARGO: 1/4 TON 2 WHEEL W/E	2	2	2	2	2		232
101		A	TRUCK UTILITY: 1/4 TON 4X4 W/E	2	2	2	2	2		232
102			OPS/INTEL PLATOON HQ							
102		A	ANTENNA GROUP: DE-254(1)/GRC	2	2	2	2	2		
102		B	BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	3	3	3	3	3		
102		B	CASE BATTERY Z-AIJ/TSEC	8	8	8	8	8		
102		A	CABLE TELEPHONE: WD-1/TT DR-8 1320 FT	8	8	8	8	8		
102		B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	10	10	10	10	10		760
102		B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	10	10	10	10	10		762
102		B	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	3	3	3	3	3		
102		B	ELEC TRANSFER KEYING DEVICE ETKD: KYK-13/TSEC	5	5	5	5	5		
102		A	DUPPLICATING MACHINE STENCIL PROCESS: BENCH HAND AUTO 7 1/4 W 1	1	1	1	1	1		
102		B	ELECTRONIC KEY GENERATOR HALF DUPLEX TACTICAL: TSEC/KG31-12	1	1	1	1	1		
102		B	GEN ST GAS ENG: 1.5KW 60HZ 1PH 2 WIRE AC 120V SHOCK TAC UTILIT	1	1	1	1	1		
102		B	GEN ST GAS ENG: 1.5KW DC 28V SHOCK TACTICAL UTILITY	1	1	1	1	1		
102		A	INSTALLATION KIT ELECTRONIC EQUIPMENT: MK-1819/GSG-10V	1	1	1	1	1		
102		B	HEADSET-MICROPHONE: H-187/PT	8	8	8	8	8		
102		A	INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1	2	2	2	2	2		

PAGE 16		SECTION 111 EQUIPMENT ALLOWANCE		06125HFC08		FC1084	
PREPARED ON DATE 830325		2004 1100					
PARA LIN	MULTI- ERC PLIER	NOMENCLATURE	SUB-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT NET CHANGE REQ AUTH	RMKS	
102	A	INSTL KIT: MK-124G/RC F/AN/VRG-46 53 64 AN/GRC-125 160 IN M56	2	2	2		
102	A	INSTALLATION KIT: MK-1838VRC F/KY-57 W/AN/VRG-46 IN M151A1	2	2	2		
102	A	INSTALLATION KIT: MK-1856VRC F/KY-57 W/AN/VRG-46 IN M561	2	2	2		
102	B	LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	1	1	1		
102	B	LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	1	1		
102	A	MESSAGE ENTRY DEVICE VARIABLE FORMAT: AN/GSC-21	1	1	1		
102	A	NET CONTROL DEVICE MCD: KYX-15/TSEC	5	5	5		
102	A	RADIO SET: AN/VRG-46	4	4	4		
102	A	RADIO SET CONTROL GROUP: AN/GRA-39	4	4	4		
102	B	REELING MACHINE CABLE HAND: RL-39	4	4	4		
102	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	4	4	4		
102	A	TOOL KIT FIRE DIRECTION ARTY REMOTE EOPT: TK-224/GSG-10V	1	1	1		
102	A	TAPE READER GENERAL PURPOSE: K01-18/TSEC	5	5	5		
102	A	SWITCHBOARD TELEPHONE MANUAL: SB-22/PT	1	1	1		
102	A	TELEPHONE SET: TA-312/PT	4	4	4		
102	A	POWER SUPPLY: VEHICLE HYP57/TSEC	4	4	4		
102	A	WIRELINE ADAPTER: H.A-57/TSEC	8	8	8		
102	B	TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	1		
102	B	TRAILER CARGO: 3/4 TON 2 WHEEL W/E	1	1	1		
102	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	1	1	1		
102	A	TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	1		
103	B	OPERATIONS-FD SEC	1	1	1		
103	A	ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	6	6	6		
103	A	ANTENNA GROUP: OE-254(1)/GRC	2	2	2		
103	B	BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	8	8	8		
103	B	CASE: BATTERY 2-ATJ/TSEC	8	8	8		
103	A	CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	2	2	2		
103	A	CABLE TELEPHONE: WD-1/TT MX-306/G 2640 FT	10	10	10		
103	A	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	10	10	10		
103	A	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	10	10	10		
103	A	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	2	2	2		
103	A	FIRE DIRECTION CENTER ARTILLERY: OA-8389/GSG-10V LESS POWER	1	1	1		
103	A	ELECTRONIC KEY GENERATOR HALF DUPLEX TACTICAL: TSEC/KG31-12	1	1	1		
103	A	FIRE DIRECTION SET ARTILLERY: 30000 METER MAXIMUM RANGE	2	2	2		
103	A	GEN ST GAS ENG: 1.5KW DC 28V SHOCK TACTICAL UTILITY	2	2	2		
103	A	HEADSET-MICROPHONE: H-182/PT	8	8	8		
103	A	INSTL KIT: MK-1246/GRC F/AN/VRG-46 53 64 AN/GRC-125 160 IN M56	1	1	1		

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PAGE 17			SECTION III EQUIPMENT ALLOWANCE			06125HFC08			FC1084				
PREPARED ON DATE 830325			2234 MRS.										
PARA	LIN	ERC	MULTI-PLIER	NOMENCLATURE	SUB-UNIT LINE REQ	UNIT TOTAL AUTH	PARENT-UNIT LINE REQ	UNIT TOTAL AUTH	PARENT-UNIT LINE REQ	UNIT TOTAL AUTH	NET CHANGE	AUTH	RMS
103	X97444	A		INSTL KIT: MK-1738/GRC F/AN/VRC-46/53/64 GRC-125/160 IN M51/MJ4	2	2	2	2	2	2			
103	K87456	A		INSTL KIT: MK-1817/GRC F/AN/VRC-46/53/64 GRC-125/160 IN M882/M8	3	3	3	3	3	3			
103	K87538	A		INSTL KIT: MK-1840VRC F/KY-57 W/AN/VRC-46 IN M882 OR M892	3	3	3	3	3	3			
103	K87557	A		INSTALLATION KIT: MK-1859VRC F/KY-57 W/AN/VRC-46 IN M561	1	1	1	1	1	1			
103	K87564	A		INSTL KIT: MK-1868VRC F/KY-57 W/AN/VRC-46 IN S250 OR S280	2	2	2	2	2	2			
103	P07753	B		PLOTTING BOARD INDIRECT FIRE: ARTILLERY/INFANTRY IN METERS	3	3	3	3	3	3			
103	P08818	A		PLOTTING SET ARTILLERY FIRE CONTROL:	2	2	2	2	2	2			
103	P28078	A		POWER PLANT ELECTRIC: AN/MJO-15	1	1	1	1	1	1			
103	Q53001	A		RADIO SET: AN/VRC-46	6	6	6	6	6	6			
103	Q78282	A		RADIO SET CONTROL GROUP: AN/GRA-39	4	4	4	4	4	4			
103	R59160	B		REELING MACHINE CABLE HAND: RL-39	2	2	2	2	2	2			
103	S01373	A		SPEECH SECURITY EQUIPMENT: TSEC/KY-57	6	6	6	6	6	6			
103	T23965	A		TAPE TRANSPORT CARTRIDGE: MK-8952/GYK	4	4	4	4	4	4			
103	T38970	A		TOOL KIT FIRE DIRECTION SYS ARTY ORG MAINT: TK-225/GSG-10V	1	1	1	1	1	1			
103	V31211	A		TELEPHONE SET: TA-312/PT	4	4	4	4	4	4			
103	V98788	A		POWER SUPPLY: VEHICLE HYP57/TSEC	6	6	6	6	6	6			
103	W60351	A		WIRELINE ADAPTER: WYX-57/TSEC	8	8	8	8	8	8			
103	W95537	B		TRAILER CARGO: 3/4 TON 2 WHEEL W/E	1	1	1	1	1	1			
103	X39453	A		TRUCK CARGO: TACTICAL 1-1/4 TON 4X4 W/100 AMP-COMM SHELTR KT W	1	1	1	1	1	1			
103	X39040	A		TRUCK CARGO: 1-1/4 TON 6X6 W/E	1	1	1	1	1	1			
103	X40831	A		TRUCK CARGO: 5 TON 6X6 LWB W/E	2	2	2	2	2	2			
INTELLIGENCE SECTION													
104	A32060	B		ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	1	1	1	1	1	1			
104	A79381	A		ANTENNA GROUP: OE-254(1)/GRC	1	1	1	1	1	1			
104	B67756	B		BIMOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	2	2	2	2	2	2			
104	C62375	A		CASE: BATTERY 2-A1J/TSEC	2	2	2	2	2	2			
104	C68719	A		CABLE TELEPHONE: WD-1/TT DR-B 132C FT	2	2	2	2	2	2			
104	C99145	B		CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	2	2	2	2	2	2			
104	C89713	B		CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	2	2	2	2	2	2			
104	E63728	B		COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	2	2	2	2	2	2			
104	J44055	B		GEN ST GAS EMG: 1.5KW DC 28V SHOCK TACTICAL UTILITY	1	1	1	1	1	1			
104	K87254	A		INSTL KIT: MK-1248/GRC F/AN/VRC-46 53 94 AN/GRC-125 160 IN M56	1	1	1	1	1	1			
104	K87557	A		INSTALLATION KIT: MK-1859VRC F/KY-57 W/AN/VRC-46 IN M561	1	1	1	1	1	1			
104	Q53001	A		RADIO SET: AN/VRC-46	1	1	1	1	1	1			
104	Q78282	A		RADIO SET CONTROL GROUP: AN/GRA-39	1	1	1	1	1	1			
104	R59160	B		REELING MACHINE CABLE HAND: RL-39	1	1	1	1	1	1			
104	S01373	A		SPEECH SECURITY EQUIPMENT TSEC/KY-57	1	1	1	1	1	1			

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PAGE 18		PREPARED ON DATE 830325		2234 HRS.		SECTION III EQUIPMENT ALLOWANCE		O6125HFC08		FC1084	
PARA LIN	MULTI- ERC PLTER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		NET CHANGE		RMS
			LINE	TOTAL	REQ	AUTH	LINE	TOTAL	REQ	AUTH	
104	V31211	A	2	2	2	2	2	2	2	2	
104	V98788	A	1	1	1	1	1	1	1	1	
104	W60351	A	2	2	2	2	2	2	2	2	
104	X39940	A	1	1	1	1	1	1	1	1	
TELEPHONE SET: TA-312/PT											
POWER SUPPLY: VEHICLE HYP57/TSEC											
WIRELINE ADAPTER: HX-57/TSEC											
TRUCK CARGO: 1-1/4 TON 6X6 W/E											
SURVEY PLATOON HQ											
105	B67766	B	1	1	1	1	1	1	1	1	
105	C68719	A	1	1	1	1	1	1	1	1	
105	C89145	B	1	1	1	1	1	1	1	1	
105	C89213	B	1	1	1	1	1	1	1	1	
105	D99025	B	1	1	1	1	1	1	1	1	
105	E63728	B	1	1	1	1	1	1	1	1	
105	K87269	A	1	1	1	1	1	1	1	1	
105	K87537	A	1	1	1	1	1	1	1	1	
105	L40063	A	1	1	1	1	1	1	1	1	
105	M15518	A	2	2	2	2	2	2	2	2	
105	O20935	B	1	1	1	1	1	1	1	1	
105	Q21483	B	1	1	1	1	1	1	1	1	
105	Q54174	A	1	1	1	1	1	1	1	1	
105	R59160	B	1	1	1	1	1	1	1	1	
105	S01373	A	2	2	2	2	2	2	2	2	
105	V31211	A	1	1	1	1	1	1	1	1	
105	V98788	A	2	2	2	2	2	2	2	2	
105	W95400	B	1	1	1	1	1	1	1	1	
105	X60833	A	1	1	1	1	1	1	1	1	
BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E											
CABLE TELEPHONE: WD-1/TT GR-8 1320 FT											
CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY											
CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE											
CHARGER BATTERY: PP-1659/G											
COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS											
INSTALLATION KIT: MK-1306/VRC-47 F/AN/VRC-47 IN M151											
INSTL KIT: MK-1838VRC F/KY-57 W/AN/VRC-12 OR AN/VRC-47 IN M151											
LASER INFRARED OBSERVATION SET: AN/GVS-5											
NIGHT VISION SIGHT TRIPOD MOUNTED: AN/TVS-4											
RADIOMETER: IM-93/UD											
RADIOMETER: IM-174/PD											
RADIO SET: AN/VRC-47											
REELING MACHINE CABLE HAND: RL-39											
SPEECH SECURITY EQUIPMENT: TSEC/KY-57											
TELEPHONE SET: TA-312/PT											
POWER SUPPLY: VEHICLE HYP57/TSEC											
TRAILER CARGO: 1/4 TON 2 WHEEL W/E											
TRUCK UTILITY: 1/4 TON 4X4 W/E											
SURVEY SECTION											
106	A22496	A	1	1	1	1	1	1	1	1	
106	B67766	B	3	3	3	3	3	3	3	3	
106	C62375	B	2	2	2	2	2	2	2	2	
106	C89145	B	3	3	3	3	3	3	3	3	
106	C89213	B	3	3	3	3	3	3	3	3	
106	E63728	B	3	3	3	3	3	3	3	3	
106	K87243	A	2	2	2	2	2	2	2	2	
106	K87254	A	1	1	1	1	1	1	1	1	
106	K87536	A	1	1	1	1	1	1	1	1	
106	K87540	A	1	1	1	1	1	1	1	1	
106	K87541	A	1	1	1	1	1	1	1	1	
AIMING CIRCLE:											
BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E											
CASE: BATTERY 2-AIJ/TSEC											
CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY											
CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE											
COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS											
INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1											
INSTL KIT: MK-1246/GRC F/AN/VRC-46 53 64 AN/GRC-125 160 IN M56											
INSTALLATION KIT: MK-1838VRC F/KY-57 W/AN/VRC-46 IN M151A1											
INSTL KIT: MK-1842VRC F/KY-57 W/AN/GRC-1600R AN/VRC-64 IN M151											
INSTL KIT: MK-1843VRC F/KY-57 W/AN/VRC-64 OR AN/GRC-160 IN M56											

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PREPARED ON DATE 800325 2234 HRS. SECTION III EQUIPMENT ALLOWANCE 06125MFC08 FC1084

PARA LIN	ERC	MULTI-PLIER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
				REQ	AUTH	LINE TOTAL	REQ	AUTH	NET CHANGE	
106	L44195	B	LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DTCMBLE W/	2	2	2	2	2		
106	L92388	A	MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	1	1	1	1	1		
106	M75714	A	MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	1	1	1	1	1		
106	M82384	B	PERISCOPE BATTERY COMMAND	1	1	1	1	1		
106	Q21220	A	POSITION AND AZIMUTH DETERMINING SYSTEM: AN/USO-70	1	1	1	1	1		
106	Q34308	A	RADIO SET: AN/GRC-160	2	2	2	2	2		
106	Q53401	A	RADIO SET: AN/VRC-48	1	1	1	1	1		
106	S01373	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	3	3	3	3	3		
106	U89783	A	SURVEYING INSTRUMENT: AZIMUTH GYRO LIGHTWEIGHT (SIAGL)	1	1	1	1	1		
106	U89174	A	SURVEYING INSTRUMENT DIST MEASUR ELECTRON INFRARED:	1	1	1	1	1		
106	U89631	A	SURVEYING SET ARTILLERY FIRE CONTROL: 4TH ORDER	1	1	1	1	1		
106	U89788	A	SURVEYING SET ARTILLERY FIRE CONTROL: 5TH ORDER	1	1	1	1	1		
106	V88788	A	POWER SUPPLY: VEHICLE HYP57/TSEC	3	3	3	3	3		
106	W07838	A	THEODOLITE SURVEY: DIRECT 0.2 MIL W/TRIPOD AND CARRYING CASE	2	2	2	2	2		
106	W95100	B	TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	1	1	1		
106	X39940	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	1	1	1	1	1		
106	X60933	A	TRUCK UTILITY: 1/4 TON 4X4 W/E	2	2	2	2	2		
107			PERS/ADMIN CEN (PAC)							
107	C88719	A	CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	1	1	1	1	1		
107	C89145	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	5	5	5	5	5		760
107	C89213	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	5	5	5	5	5		762
107	V31211	A	TELEPHONE SET: TA-312/PT	3	3	3	3	3		
107	W95811	B	TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	1	1	1	1		
107	X40309	A	TRUCK CARGO: 2-1/2 TON 6X6 W/E	1	1	1	1	1		
108			NVR BDE FIRE SPT SEC							
108	A79381	A	ANTENNA GROUP: OE-254(1)/GRC	1	1	1	1	1		
108	B87746	B	BIMOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	2	2	2	2	2		
108	C82379	B	CASE: BATTERY 2-A1J/TSEC	5	5	5	5	5		
108	C88719	A	CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	3	3	3	3	3		
108	C89145	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	3	3	3	3	3		
108	C89213	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	3	3	3	3	3		
108	E63728	B	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	1	1	1	1	1		
108	W01836	A	ELECTRONIC KEY GENERATOR HALF DUPLEX TACTICAL: TSEC/KG31-12	1	1	1	1	1		
108	J44055	B	GEN ST GAS ENG: 1.5KV DC 28V SHOCK TACTICAL UTILITY	1	1	1	1	1		
108	J88139	A	INSTALLATION KIT ELECTRONIC EQUIPMENT: MK-1819/GSG-10V	1	1	1	1	1		
108	K23914	B	HEADSET-MICROPHONE: H-182/PT	1	1	1	1	1		

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SECTION III EQUIPMENT ALLOWANCE

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PARA LIM ERC PLIER MULTI- Nomenclature

108 K87282 A INSTALLATION KIT: MK-1254/VRC-49 FOR AN/VRC-49 MTD IN M561  
108 K87558 A INSTALLATION KIT: MK-1860VRC F/KY-57 W/AN/VRC-49 IN M561  
108 L44795 B LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/  
108 M52582 A MESSAGE ENTRY DEVICE VARIABLE FORMAT: AN/GSC-21  
108 Q38299 A RADIO SET: AN/PRC-77  
108 Q55114 A RADIO SET: AN/VRC-49  
108 Q78282 A RADIO SET CONTROL GROUP: AN/GRA-39  
108 R59160 B REELING MACHINE CABLE HAND: RL-39  
108 S01373 A SPEECH SECURITY EQUIPMENT: TSEC/KY-57  
108 T38720 A TOOL KIT FIRE DIRECTION ARTY REMOTE EOPT: TK-224/GSQ-10V  
108 U82529 A SWITCHBOARD TELEPHONE MANUAL: SB-993/GT  
108 V31211 A TELEPHONE SET: YA-312/PT  
108 V98788 A POWER SUPPLY: VEHICLE HYP57/1SEC  
108 W60351 A WIRELINE ADAPTER: MYA-57/TSEC  
108 W95537 B TRAILER CARGO: 3/4 TON 2 WHEEL W/E  
108 X39240 A TRUCK CARGO: 1-1/4 TON 6X6 W/E

3 MVR BN FS SECTION  
109 A71712 B ANTENNA: AT-984/G  
109 A79381 A ANTENNA GROUP: OE-254(1)/GRC  
109 B67766 B BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E  
109 C62375 B CASE: BATTERY 2-ATJ/TSEC  
109 C68719 A CABLE TELEPHONE: WD-1/TT DR-B 1320 FT  
109 C89145 B CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY  
109 C89212 B CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE  
109 E63728 B COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS  
109 H01836 A ELECTRONIC KEY GENERATOR HALF DUPLEX TACTICAL: TSEC/KG31-12  
109 J44055 B GEN ST GAS ENG: 1.5KW DC 28V SHOCK TACTICAL UTILITY  
109 J88139 A HEADSET-MICROPHONE: H-182/PT  
109 K23814 B HEADSET-MICROPHONE: H-182/PT  
109 K87262 A INSTALLATION KIT: MK-1254/VRC-49 FOR AN/VRC-49 MTD IN M561  
109 K87558 A INSTALLATION KIT: MK-1860VRC F/KY-57 W/AN/VRC-49 IN M561  
109 L44595 B LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/  
109 M52582 A MESSAGE ENTRY DEVICE VARIABLE FORMAT: AN/GSC-21  
109 Q38299 A RADIO SET: AN/PRC-77  
109 Q55114 A RADIO SET: AN/VRC-49  
109 Q78282 A RADIO SET CONTROL GROUP: AN/GRA-39  
109 R59160 B REELING MACHINE CABLE HAND: RL-39

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PARA LIN	ERC	MULTI-PLIER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		NET CHANGE	
				LINE TOTAL	REQ	LINE TOTAL	REQ	LINE TOTAL	REQ	NET CHANGE	RMKS
109	501373	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	9	9	9	9	9	9		
109	128720	A	TOOL KIT FIRE DIRECTION ARTY REMOTE EOPT: TK-224/GSG-10V	3	3	3	3	3	3		
109	082929	A	SWITCHBOARD TELEPHONE MANUAL: SB-993/GT	3	3	3	3	3	3		
109	031211	A	TELEPHONE SET: TA-312/PT	6	6	6	6	6	6		
109	098788	A	POWER SUPPLY: VEHICLE HYP57/TSEC	6	6	6	6	6	6		
109	060151	A	WIRELINE ADAPTER: MYR-57/TSEC	12	12	12	12	12	12		
109	095337	B	TRAILER CARGO: 3/4 TON 2 WHEEL W/E	3	3	3	3	3	3		
109	139740	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	3	3	3	3	3	3		
110	071712	B	9 IMP CO FIST	9	9	9	9	9	9		
110	079381	A	ANTENNA: AT-984/G	9	9	9	9	9	9		
110	067766	B	ANTENNA GROUP: OE-254(1)/GRC	45	45	45	45	45	45		
110	062375	B	BINDULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	81	81	81	81	81	81		
110	088719	A	CASE: BATTERY Z-A1J/TSEC	18	18	18	18	18	18		
110	088493	A	CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	45	45	45	45	45	45		
110	089145	B	CABLE TELEPHONE: WD-1/TT MX-308/G 2640 FT	8	8	8	8	8	8		
110	089213	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	8	8	8	8	8	8		
110	083728	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	36	36	36	36	36	36		
110	098103	A	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	9	9	9	9	9	9		
110	087243	A	ELEC TRANSFER KEYING DEVICE ETKD: KYK-13/TSEC	18	18	18	18	18	18		
110	087269	A	INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1	9	9	9	9	9	9		
110	087537	A	INSTALLATION KIT: MK-1208/VRC-47 F/AN/VRC-47 IN M151	9	9	9	9	9	9		
110	087540	A	INSTL KIT: MK-1839VRC F/KY-57 W/AN/VRC-12 OR AN/VRC-47 IN M151	9	9	9	9	9	9		
110	040043	A	INSTL KIT: MK-1842VRC F/KY-57 W/AN/VRC-1600R AN/VRC-64 IN M151	36	36	36	36	36	36		
110	044595	B	LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	36	36	36	36	36	36		
110	052050	A	MESSAGE DEVICE DIGITAL: AN/PSG-2	9	9	9	9	9	9		
110	002758	A	NET CONTROL DEVICE NCD: KYK-15/TSEC	9	9	9	9	9	9		
110	004156	A	NIGHT VISION GOGGLES: AN/PVS-5	9	9	9	9	9	9		
110	004082	A	TOW-NIGHT SIGHT EQUIPMENT SET: AN/UAS-12	9	9	9	9	9	9		
110	034308	A	RADIO SET: AN/GRC-160	18	18	18	18	18	18		
110	028299	A	RADIO SET: AN/PRC-77	27	27	27	27	27	27		
110	054174	A	RADIO SET: AN/PRC-47	9	9	9	9	9	9		
110	078282	A	RADIO SET CONTROL GROUP: AN/GRA-39	18	18	18	18	18	18		
110	059160	B	REELING MACHINE CABLE HAND: RL-39	18	18	18	18	18	18		
110	001773	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	63	63	63	63	63	63		
110	126157	A	TARGET DESIGNATOR SET ELECTRO OPTICAL	9	9	9	9	9	9		
110	140405	A	TAPE READER GENERAL PURPOSE: KOL-18/TSEC	9	9	9	9	9	9		

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PARA LIN	ERC PLIER	NOMENCLATURE	SUB-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT NET CHANGE REQ AUTH	RMS	
110	U82529	A SWITCHBOARD TELEPHONE MANUAL: SB-993/GT	9	9	9		
110	V31211	A TELEPHONE SET: TA-312/PT	45	45	45		
110	V98788	A POWER SUPPLY: VEHICLE HYP57/TSEC	36	36	36		
110	W60J51	A WIRELINE ADAPTER: MYX-57/TSEC	36	36	36		
110	W95400	B TRAILER CARGO: 1/4 TON 2 WHEEL W/E	18	18	18		
110	X60833	A TRUCK UTILITY: 1/4 TON 4X4 W/E	18	18	18		
MEDICAL SECTION							
111	B72638	B BLANKET SET BED:	1	1	1		
111	C88719	A CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	1	1	1		
111	C89145	B CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SV	11	11	11		
111	C89213	B CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	11	11	11		
111	J43918	B GEN ST GAS ENG: 1.5KW 60HZ 1PH 2 WIRE AC 120V SHOCK TAC UTILITY	2	2	2		
111	L83994	B LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	1	1		
111	M11484	B MASK CBR: HEADWOUND PROTECTIVE	10	10	10		
111	O19339	B RADIAC SET: AN/PDR-27	1	1	1		
111	O20935	B RADIAC METER: IM-53/UD	1	1	1		
111	O21483	B RADIAC METER: IM-174/PO	1	1	1		
111	R88696	B RESUSCITATOR-ASPIRATOR: INTERMITTENT POSITIVE PRESSURE MAN CYC	1	1	1		
111	U08145	B SPLINT SET: TELESCOPIC SPLINTS	1	1	1		
111	U65480	B SURGICAL INSTRUMENT AND SUPPLY SET INDIVIDUAL:	5	4	5		
111	V31211	A TELEPHONE SET: TA-312/PT	1	1	1		
111	X38961	A TRUCK AMBULANCE: 1-1/4 TON 6X6 W/E	1	1	1		
111	X40009	A TRUCK CARGO: 2-1/2 TON 6X6 W/E	1	1	1		
111	Y34027	C WATCH WRIST: NON MAINTAINABLE	1	1	1		
111	Z42077	B MEDICAL EQUIPMENT SET BATTALION AID STATION (R-1)	1	1	1		
COMM PLATOON W)							
112	A79381	A ANTENNA GROUP (H 2141)/GRC	2	2	2		
112	B67766	B BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	1	1	1		
112	C82375	B CASE BATTERY 2 AIN TSEC	2	2	2		
112	C88719	A CABLE TELEPHONE: WD 1/TT DR-B 1320 FT	3	3	3		
112	C89145	B CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SV	6	6	6		
112	C89213	B CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	6	6	6		
112	E63728	B COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	1	1	1		
112	G02204	B DETECTING SET MIN: P/ML METALLIC AND NON METALLIC	1	1	1		
112	G02341	B DETECTING SET MIN: P/PL METALLIC (AN/PSS-11)	1	1	1		
112	J44025	B GEN ST GAS ENG: 1 5/8 W DC 28V SHOCK TACTICAL UTILITY	1	1	1		

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SECTION III EQUIPMENT ALLOWANCE

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ITEM NO. QTY. REQ. FILTER NOMENCLATURE

ITEM NO	QTY	REQ	FILTER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		MARKS
					LINE	TOTAL	REQ	AUTH	LINE	TOTAL	
112	1	A		INSTALLATION KIT: MK-1224/VRC-49 F/AN/VRC-49 IN M151	1	1	1	1	1	1	
112	1	A		INSTALLATION KIT: MK-1841VRC F/KY-57 W/AN/VRC-49 IN M151A1	1	1	1	1	1	1	
112	1	B		LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	1	1	1	1	1	1	
112	1	A		MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	1	1	1	1	1	1	
112	1	A		MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	1	1	1	1	1	1	
112	3	B		MULTIMETER: AN/URM-105	3	3	3	3	3	3	
112	2	B		RADIACMETER: IM-93/UD	2	2	2	2	2	2	
112	1	B		RADIACMETER: IM-174/PD	1	1	1	1	1	1	
112	1	A		RADIO SET: AN/VPC-49	1	1	1	1	1	1	
112	1	A		RADIO SET CONTROL GROUP: AN/GRA-39	1	1	1	1	1	1	
112	2	B		REELING MACHINE CABLE HAND: RL-39	2	2	2	2	2	2	
112	2	B		SPEECH SECURITY EQUIPMENT: TSEC/KY-57	2	2	2	2	2	2	
112	2	A		TELEPHONE SET: TA-312/PT	2	2	2	2	2	2	
112	1	A		TEST SET BATTERY: AN/PSM-13	1	1	1	1	1	1	
112	2	B		POWER SUPPLY: VEHICLE HYP57/TSEC	2	2	2	2	2	2	
112	5	A		TOOL KIT ELECTRIC EQUIPMENT: TK-101/GSO	5	5	5	5	5	5	
112	2	B		WIRELINE ADAPTER: HYX-57/1SEC	2	2	2	2	2	2	
112	1	A		TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	1	1	1	1	
112	1	B		TRUCK CARGO: 1-1/4 TON 6X6 W/E	1	1	1	1	1	1	
112	1	A		TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	1	1	1	1	

WIRE SECTION

113	807126	A		AXLE CABLE REEL: RL-27	4	4	4	4	4	4			
113	C65253	A		CABLE ASSEMBLY TELEPHONE: CX-4566/G	2	2	2	2	2	2			
113	C66390	A		CABLE ASSEMBLY TELEPHONE: CX-4760/U 15FT	4	4	4	4	4	4			
113	C68R56	A		CABLE TELEPHONE: SC-1/TT RL-159/U 5280 FT	35	35	35	35	35	35			
113	C66493	A		CABLE TELEPHONE: WD-1/TT MX-306/G 2640 FT	10	10	10	10	10	10			
113	C89145	B		CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	9	9	9	9	9	9			
113	C89213	B		CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	9	9	9	9	9	9			
113	E48707	B		COIL TELEPHONE REPEATING: C-161	8	8	8	8	8	8			
113	L44595	B		LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	4	4	4	4	4	4			
113	L92386	A		MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	4	4	4	4	4	4			
113	M75714	A		MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	4	4	4	4	4	4			
113	M04732	A		NIGHT VISION SIGHT INDIVIDUAL SERVED WEAPON: AN/PVS-4	2	2	2	2	2	2			
113	R59023	B		REELING MACHINE CABLE HAND: RL-31	4	4	4	4	4	4			
113	R59434	B		REELING MACHINE CABLE MOTOR DRIVEN: RL-172/G	4	4	4	4	4	4			
113	U05008	B		SPLICING KIT TELEPHONE CABLE: MK-356/G	4	4	4	4	4	4			
113	U81707	A		SWITCHBOARD TELEPHONE MANUAL: SB-22/PT	3	3	3	3	3	3			

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PARA LIN	ERC PLIER	MULTI-	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
				LINE TOTAL	REQ	LINE TOTAL	REQ	NET CHANGE	AUTH	
113	V31211	A	TELEPHONE SET: TA-312/PT	8	8	8	8			
113	X39940	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	4	4	4	4			
113	X60833	A	TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	1	1			
114			RADIO TT SECTION							
114	C68719	A	CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	2	2	2	2			
114	C89145	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	4	4	4	4			
114	C89213	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	4	4	4	4			
114	H02300	A	ELECTRONIC TELETYPEWRITER SECURITY EQUIPMENT: TSEC/KW-7	2	2	2	2			
114	J47017	A	GEN ST GAS ENG TM: 5KW 60HZ 2EA MTD ON M116 PU-620	2	2	2	2			
114	K23814	B	HEADSET-MICROPHONE: H-182/PT	2	2	2	2			
114	O90120	A	RADIO TELETYPEWRITER SET: AN/GRC-142	2	2	2	2			
114	R59160	B	REELING MACHINE CABLE HAND: RL-39	2	2	2	2			
114	V31211	A	TELEPHONE SET: TA-312/PT	2	2	2	2			
114	X39940	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	2	2	2	2			
115			BATTERY HEADQUARTERS							
115	A03210	C	ACCESSORY OUTFIT GASOLINE FIELD RANGE: ACCOM 50 MEN	1	1	1	1			
115	A32080	B	ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	1	1	1	1			
115	A56243	B	ANALYZER SET ENGINE: PORTABLE SOLID STATE (STE/ICEPM)	1	1	1	1			
115	B49272	A	BAYONET-KNIFE: W/SCABBARD FOR M16A1 RIFLE	216	201	216	201			
115	B67766	B	BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	1	1	1	1			
115	C38422	C	BURNER UNIT GASOLINE FIELD RANGE OUTFIT: W/COMPONENTS	4	4	4	4			
115	C89145	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	24	24	24	24			
115	C89213	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	24	24	24	24			
115	E00533	B	CHARGER RADAR DETECTOR: PP-1578/PO	2	2	2	2			
115	E63728	B	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	1	1	1	1			
115	E70064	B	COMP UNIT RCP: TRK 2 WHL PNEU TIRES GAS DRVN 5 CFM 175 PSI	1	1	1	1			
115	G02204	B	DETECTING SET MINE: PTBL METALLIC AND NON METALLIC	1	1	1	1			
115	G02341	B	DETECTING SET MINE: PTBL METALLIC (AN/PSS-11)	1	1	1	1			
115	J43918	B	GEN ST GAS ENG: 1.5KW 60HZ 1PH 2 WIRE AC 120V SHOCK TAC UTILIT	1	1	1	1			
115	K25342	C	HEATER IMMERSION LIQUID FUEL FIRED: 34-3/4 IN LG OF HEATER	12	12	12	12			
115	K87243	A	INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 16G IN M1	1	1	1	1			
115	K87536	A	INSTALLATION KIT: MK-1838VRC F/KY-57 W/AN/VRC-46 IN M151A1	1	1	1	1			
115	L28351	C	KITCHEN FIELD TRAILER MOUNTED: MTD ON M103A3 TRAILER	1	1	1	1			
115	L44595	B	LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	1	1	1	1			
115	L63194	B	LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	1	1	1			
115	L91475	A	MACHINE GUN CALIBER .50: HB FLEXIBLE (GROUND AND VEHICLE) W/E	1	1	1	1			

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PARA LIM	ERC	PLIER	MULTI-	NOMENCLATURE	LINE REQ	LINE TOTAL AUTH	LINE REQ	LINE TOTAL AUTH	NET CHANGE REQ	AUTH	RMKS
115	L92386	A		MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	2	2	2	2			
115	M11295	B		MASK CBR: PROTECTIVE FIELD	227	210	227	210			
115	M74364	A		MOUNT GUN: RING CAL .50	1	1	1	1			
115	M75-14	A		MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	2	2	2	2			
115	M50002	B		MULTIMETER: AN/URM-105	2	2	2	2			
115	M04732	A		NIGHT VISION SIGHT INDIVIDUAL SERVED WEAPON: AN/PVS-4	3	3	3	3			
115	M96741	A		PISTOL CALIBER .45 AUTOMATIC:	35	35	35	35			202
115	M02035	B		RADIOMETER: IM-93/UD	2	2	2	2			
115	M21483	B		RADIOMETER: IM-174/PD	1	1	1	1			
115	M53001	A		RADIO SET: AN/VRC-46	1	1	1	1			
115	M14154	C		RANGE OUTFIT FIELD GASOLINE:	2	2	2	2			
115	M94377	A		RIFLE 8.56 MILLIMETER: W/E	192	175	192	175			
115	M01373	A		SPEECH SECURITY EQUIPMENT: TSEC/KY-57	1	1	1	1			
115	V31211	A		TELEPHONE SET: TA-312/PT	5	5	5	5			
115	V98798	A		POWER SUPPLY: VEHICLE HYP57/TSEC	1	1	1	1			
115	V32593	B		SHOP EQUIPMENT AUTO MAINT AND REPAIR: ON COMMON NO 1 LESS POWE	1	1	1	1			
115	V33004	B		TOOL KIT GENERAL MECHANICS: AUTOMOTIVE	5	4	5	4			212
115	V34648	B		TOOL KIT CARPENTERS: ENGINEER SQUAD W/CHEST	1	1	1	1			
115	W51910	B		TOOL KIT SMALL ARMS REPAIRMAN: ORDNANCE	1	1	1	1			
115	W95400	B		TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	1	1			
115	W95811	B		TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	1	1	1			
115	W98825	B		TRAILER TANK: WATER 400 GALLON 1-1/2 TON 2 WHEEL W/E	1	1	1	1			
115	X40009	A		TRUCK CARGO: 2-1/2 TON 6X6 W/E	2	2	2	2			
115	X40146	A		TRUCK CARGO: 2-1/2 TON 6X6 W/MINCH W/E	1	1	1	1			
115	X60333	A		TRUCK UTILITY: 74 TON 4X4 W/E	1	1	1	1			
115	V34027	C		WATCH WRIST: NON MAINTAINABLE	17	17	17	17			800
118				SEP OBS/LASING TM							
118	A71712	B		ANTENNA: AT-984/G	3	3	3	3			
118	B67766	B		BINDOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	3	3	3	3			
118	C62375	B		CASE: BATTERY Z-AIJ/TSEC	9	9	9	9			
118	C68719	A		CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	9	9	9	9			
118	C89145	B		CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	3	3	3	3			
118	C89213	B		CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	3	3	3	3			
118	E63728	B		COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	3	3	3	3			
118	K87243	A		INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1	3	3	3	3			
118	K87536	A		INSTALLATION KIT: MK-1838VRC F/KY-57 W/AN/VRC-46 IN M151A1	3	3	3	3			
118	L24595	B		LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DTICBLE W/	3	3	3	3			

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PREPARED ON DATE 830325 2234 HRS.

SECTION III EQUIPMENT ALLOWANCE

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PARA LIN	ERC	MULTI-PLIER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
				LINE	TOTAL	LINE	TOTAL	REQ	NET CHANGE	
118			MESSAGE DEVICE DIGITAL: AN/PSG-2	3	3	3	3			
118			NIGHT VISION GOGGLES: AN/PVS-5	3	3	3	3			
118			TOW-NIGHT SIGHT EQUIPMENT SET: AN/UAS-12	3	3	3	3			
118			RADIO SET: AN/PRC-77	3	3	3	3			
118			RADIO SET: AN/VRC-46	3	3	3	3			
118			RADIO SET CONTROL GROUP: AN/GRA-39	3	3	3	3			
118			REELING MACHINE CABLE HAND: RL-39	6	6	6	6			
118			SPEECH SECURITY EQUIPMENT: TSEC/KY-57	6	6	6	6			
118			TARGET DESIGNATOR SET ELECTRO OPTICAL:	3	3	3	3			
118			TELEPHONE SET: TA-312/PT	3	3	3	3			
118			POWER SUPPLY: VEHICLE HYP57/TSEC	3	3	3	3			
118			WIRELINE ADAPTER: HWX-57/TSEC	3	3	3	3			
118			TRAILER CARGO: 1/4 TON 2 WHEEL W/E	6	6	6	6			
118			TRUCK UTILITY: 1/4 TON 4X4 W/E	3	3	3	3			
200			3 FA BTRY. 15MM T. FA BN							
201			BATTERY HEADQUARTERS							
201			ACCESSORY OUTFIT GASOLINE FIELD RANGE: ACCOM 50 MEN	1	1	1	1			
201			ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	1	1	1	1			
201			ANALYZER SET ENGINE: PORTABLE SOLID STATE (STE/ICEPM)	1	1	1	1			
201			ANTENNA GROUP: OE-254(1)/GRC	1	1	1	1			
201			BAYONET-KNIFE: W/SCABBARD FOR M16A1 RIFLE	109	94	327	282			
201			BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	1	1	1	1			
201			BURNER UNIT GASOLINE FIELD RANGE OUTFIT: W/COMPONENTS	4	4	12	12			
201			CASE: BATTERY 2-A1J/TSEC	3	3	3	3			
201			CABLE TELEPHONE: WD-1/TT DR-B 1320 FT	2	2	6	6			
201			CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WY RADAR SCAT W/O SPT SY	24	24	72	72			
201			CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	24	24	72	72			
201			CHARGER RADIAC DETECTOR: PP-1578/PD	2	2	6	6			
201			COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	1	1	3	3			
201			COMP UNIT RCP: TRK 2 WHL PNEU TIRES GAS DRVN 5 CFM 175 PSI	1	1	3	3			
201			GEN ST GAS ENG: 1.5KW 60HZ 1PH 2 WIRE AC 120V SHOCK TAC UTILIT	1	1	3	3			
201			GEN ST GAS ENG: 1.5KW DC 28V SHOCK TACTICAL UTILITY	1	1	3	3			
201			HEATER IMMERSION LIQUID FUEL FIRED: 34-3/4 IN LG OF HEATER	8	8	24	24			
201			INSTALLATION KIT: MK-1308/VRC-47 F/AN/VRC-47 IN M151	1	1	3	3			
201			INSTL KIT: MK-1839VRC F/KY-57 W/AN/VRC-12 OR AN/VRC-47	1	1	3	3			
201			KITCHEN FIELD TRAILER MOUNTED: MTD ON M103A3 TRAILER	1	1	3	3			

760  
762

PAGE 27		SECTION III EQUIPMENT ALLOWANCE		06125HFC08		FC1084	
PREPARED ON DATE 830325		2234 HRS.					
PARA	LIN	ERC	FLTR	MULTI - NOMENCLATURE	SUB-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT NET CHANGE REQ AUTH RMKS
201	L4795	B		LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MID DITCHBLE W/	2	2	6
201	L6394	C		LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	1	3
201	L9175	A		MACHINE GUN CALIBER .50: HB FLEXIBLE (GROUND AND VEHICLE) W/E	1	1	3
201	L9286	A		MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	2	2	6
201	M1195	B		MASK CBR: PROTECTIVE FIELD	109	94	282
201	M74364	A		MOUNT GUN: RING CAL .50	1	1	3
201	M75714	A		MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	2	2	6
201	M80902	B		MULTIMETER: AN/URM-105	1	1	3
201	M04456	A		NIGHT VISION GOGGLES: AN/PVS-5	6	6	18
201	N04732	A		NIGHT VISION SIGHT INDIVIDUAL SERVED WEAPON: AN/PVS-4	5	5	15
201	N96741	A		PISTOL CALIBER .45 AUTOMATIC:	1	1	3
201	Q19139	B		RADIO SET: AN/PDR-27	1	1	3
201	Q20035	B		RADIAC METER: IM-93/UD	2	2	6
201	Q21483	B		RADIAC METER: IM-174/PD	1	1	3
201	Q38299	A		RADIO SET: AN/PRC-77	1	1	3
201	Q54174	A		RADIO SET: AN/VRC-47	1	1	3
201	Q78282	A		RADIO SET CONTROL GROUP: AN/GRA-39	1	1	3
201	R14154	C		RANGE OUTFIT FIELD GASOLINE:	2	2	6
201	R59160	B		REELING MACHINE CABLE HAND: RL-39	1	1	3
201	R93169	B		RADIO TEST SET: AN/PRM-34(1)	1	1	3
201	R94977	A		RIFLE 5.56 MILLIMETER: W/E	1	1	3
201	S01373	A		SPEECH SECURITY EQUIPMENT: TSEC/KY-57	108	93	279
201	S83585	A		SMALL UNIT TRANSCIVER: AN/PRC-68	3	3	9
201	V31211	A		TELEPHONE SET: TA-312/PT	1	1	3
201	V98788	A		POWER SUPPLY: VEHICLE HYP57/TSEC	3	3	9
201	W32193	B		SHOP EQUIPMENT AUTO MAINT AND REPAIR: OM COMMON NO 1 LESS POWE	2	2	6
201	W33004	B		TOOL KIT GENERAL MECHANICS: AUTDMOTIVE	1	1	3
201	W34648	B		TOOL KIT CARPENTERS: ENGINEER SQUAD W/CHEST	1	1	3
201	W51910	B		TOOL KIT SMALL ARMS REPAIRMAN: ORDNANCE	1	1	3
201	W60351	A		WIRELINE ADAPTER: WYX-57/TSEC	2	2	6
201	W95400	B		TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	3
201	W95911	B		TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	1	3
201	W98A25	B		TRAILER TANK: WATER 400 GALLON 1-1/2 TON 2 WHEEL W/E	1	1	3
201	X40009	A		TRUCK CARGO: 2-1/2 TON 6X6 W/E	2	2	6
201	X40146	A		TRUCK CARGO: 2-1/2 TON 6X6 W/WINCH W/E	1	1	3
201	X60A33	A		TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	3
201	Y34027	C		WATCH WRIST: NON MAINTAINABLE	4	4	12



SECTION III EQUIPMENT ALLOWANCE

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PARA LIN	ERC	PLIER	MULTI- NOMECLATURE	SUB-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT NET CHANGE REQ AJTH RMKS
203	K23814	B	HEADSET-MICROPHONE: H-182/PT	3	9	9
203	K87254	A	INSTL KIT: MK-1741/GRC F/AN/VRC-46 53 64 AN/GRC-125 160 IN M56	1	3	3
203	K87261	A	INSTL KIT: MK-1753/VRC-47 F/AN/VRC-47 IN M561	2	6	6
203	K87556	A	INSTALLATION KIT: MK-1858VRC F/KY-57 W/AN/VRC-12 OR 47 IN M561	2	6	6
203	K87557	A	INSTALLATION KIT: MK-1859VRC F/KY-57 W/AN/VRC-46 IN M561	1	3	3
203	L44395	B	LAUNCHER GRENADE 40 MILLIMETER: SGLS SHOT RIFLE MTD DITCHBLE W/	2	6	6
203	L63583	B	LIGHT SET CHART FIELD: BATTERY OPRTD PTBL COMMAND POST	1	3	3
203	L63584	B	LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	3	3
203	M66857	C	MONITORING SET GUIDED MISSILE SYSTEM: AN/TSQ-T1 (DRAGON)	1	3	3
203	M80002	B	MULTIMETER: AN/URN-105	1	3	3
203	M23721	B	NIGHT VISION SIGHT-TRACKER: INFERRED AN/TAS-5	2	6	6
203	M78466	B	PEDESTAL INFRARED TRANSMITTER GUIDED MISSILE SYSTEM: M5 (DRAGO	1	3	3
203	P07753	S	PLOTTING BOARD INDIRECT FIRE: ARTILLERY/INFANTRY IN METERS	2	6	6
203	PC5818	A	PLOTTING SET ARTILLERY FIRE CONTROL:	2	6	6
203	P70517	B	PURGING KIT FIRE CONTROL: ORG MAINT	1	3	3
203	P71995	C	PROJECTILE 155 MILLIMETER: M823 TRAINING (INERT)	1	3	3
203	Q20975	B	RADIOMETER: IM-93/1M	2	6	6
203	Q21483	B	RADIOMETER: IM-174/PD	1	3	3
203	Q38299	A	RADIO SET: AN/PFC 71	3	9	9
203	Q53401	A	RADIO SET: AN/VRC-41	1	3	3
203	Q54174	A	RADIO SET: AN/VRC-47	2	6	6
203	Q78282	A	RADIO SET CONTROL GROUP: AN/GRA-39	3	9	9
203	R59160	B	REELING MACHINE CABLE HAND: RL-39	3	9	9
203	S01373	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	3	9	9
203	S83585	A	SMALL UNIT TRANSMITTER: AN/PRC-68	8	24	24
203	T38720	A	TOOL KIT FIRE DIRECTION ARTY REMOTE EQPT: TK-224/GSG-10V	3	9	9
203	U05008	B	SPLICING KIT 1715/1716 CABLE: MK-356/G	1	3	3
203	UR2529	A	SWITCHBOARD TELEPHONE MANUAL: SB-993/GT	1	3	3
203	V29978	A	TELEPHONE CONNECTING AND SWITCHING GROUP: MK-155/GT	1	3	3
203	V31211	A	TELEPHONE SET: TA-312/PT	5	15	15
203	V98788	A	POWER SUPPLY: VEHICLE HYP57/TSEC	5	15	15
203	V30264	B	TOOL KIT ARTILLERY MECHANICS:	1	3	3
203	W52047	B	TOOL KIT SPECIAL WEAPONS: ORG MAINT ATOMIC PUCTL FLD ART	1	3	3
203	W60151	A	WIRELINE ADAPTER: WYX-57/TSEC	6	18	18
203	W80-15	B	TRACKER INFRARED GUIDED MISSILE SU-36 (XO-11)/P: (DRAGON)	2	6	6
203	W95637	B	TRAILER CARGO: 3/4 TON 2 WHEEL W/E	2	6	6
203	X15011	B	TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	3	3
203	X15011	B	TRAINER LAUNCH EFFECTS GUIDED MISSILE: M54 (DRAGON)	1	3	3

SECTION III EQUIPMENT ALLOWANCE

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PARA LIN	ERC	MULTI-PLIER	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
				LINE	TOTAL	LINE	TOTAL	REQ	AUTH	
203	X18G73	B	TRANSMITTING SET INFRARED: M89 (DRAGON)	1	1	3	3			
203	X39D40	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	2	2	6	6			
203	X40X09	A	TRUCK CARGO: 2-1/2 TON 6X6 W/E	1	1	3	3			
204			8.1 DWTITZER SECTIONS							
204	C02375	B	CASE: BATTERY Z-A1J/TSEC	6	6	18	18			
204	C08719	A	CABLE TELEPHONE: WD-1/TT DR-8 1320 FT	6	6	18	18			
204	C09145	E	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	36	36	108	108			760
204	C09212	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	36	36	108	108			762
204	C09212	B	COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	6	6	18	18			
204	F16095	D	FUZE SETTER: M36	6	6	18	18			
204	K57821	A	NOVITIZER MEDIUM TONED: 155 MILLIMETER M198	6	6	18	18			
204	L44595	B	LAUNCHER GRENADE 40 MILLIMETER: SGL SHOT RIFLE MID DITCHBLE W/	2	2	6	6			
204	L62386	A	MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	6	6	18	18			
204	M75714	A	MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	6	6	18	18			
204	Q38299	A	RADIO SET: AN/PRC-77	6	6	18	18			
204	Q77755	A	RADIO SET CONTROL: C-2320/GRA-39	6	6	18	18			
204	R59160	B	REELING MACHINE CABLE HAND: RL-39	6	6	18	18			
204	S01373	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	6	6	18	18			
204	S83585	A	SMALL UNIT TRANSCIVER: AN/PRC-68	6	6	18	18			
204	V31711	A	TELEPHONE SET: TA-312/PT	6	6	18	18			
204	X40262	A	TRUCK CARGO: 5 TON 6X6 LWB W/WINCH W/E	6	6	18	18			
205			AMMUNITION SECTION							
205	C03145	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	18	18	54	54			760
205	C09212	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	18	18	54	54			762
205	L92386	A	MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE	2	2	6	6			
205	M75714	A	MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER	2	2	6	6			
205	V31211	A	TELEPHONE SET: TA-312/PT	1	1	3	3			
205	W94030	A	TRAILER AMMUNITION: 1-1/2 TON 2 WHEEL W/E	6	6	18	18			
205	X40794	A	TRUCK CARGO: DROP SIDE 5 TON 6X6 W/E	6	6	18	18			
300		1	SVC BTRY, 155MM T. FA BN							
301			BATTERY HEADQUARTERS							
301	A03210	C	ACCESSORY OUTFIT GASOLINE FIELD RANGE: ACCOM 50 MEN	1	1	1	1			
301	A32060	B	ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	1	1	1	1			
301	A79381	A	ANTENNA GROUP: DE-254(1)/GRC	1	1	1	1			

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PREPARED ON DATE 830328		2234 HRS.					
PARA LIN	ERC PLIER	MULTI-	NOMENCLATURE	SUR-UNIT LINE TOTAL REQ	PARENT-UNIT LINE TOTAL REQ	PARENT-UNIT NET CHANGE REQ	RMKS
301	A		BAYONET-KNIFE: W/SCABBARD FOR MIGAI RIFLE	77	77	73	
301	B		BINOCULAR: MODULAR CONSTRUCTION MIL SCALE RETICLE 7X50MM W/E	1	1	1	
301	C		BURNER UNIT GASOLINE FIELD RANGE OUTFIT: W/COMPONENTS	4	4	4	
301	B		CASE: BATTERY 2-AIU/TSEC	2	2	2	
301	A		CABLE TELEPHONE: WD-1/1T DR-B 1220 FT	2	2	2	
301	A		CABLE TELEPHONE: WD-1/1T RL-159/U 5280 FT	2	2	2	
301	A		CABLE TELEPHONE: WD-1/1T MX-306/G 2640 FT	4	4	4	
301	B		CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/D SPT SV	29	29	29	760
301	B		CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	29	29	29	762
301	B		CHARGER RADIAC DETECTOR: PP-1578/PO	2	2	2	
301	B		COIL TELEPHONE REPEATING: C-161	4	4	4	
301	B		COMPASS MAGNETIC UNMOUNTED: MIL GRADUATIONS	1	1	1	
301	B		COMP UNIT RCP: TRK 2 WHL PNEU TIRES GAS DRVN 5 CFM 175 PSI	1	1	1	
301	B		DETECTING SET MINE: PTBL METALLIC AND NON METALLIC	1	1	1	
301	B		DETECTING SET MINE: PTBL METALLIC (AN/PSS-11)	1	1	1	
301	B		GEN ST GAS ENG: 1.5KW DC 28V SHOCK TACTICAL UTILITY	1	1	1	
301	C		HEATER IMMERSION LIQUID FUEL FIRED: 34-3/4 IN LG OF HEATER	4	4	4	
301	C		INSTALLATION KIT: MX-1234/G F/AN/VRC-46 53 84 GRC125 160 IN MI	1	1	1	
301	A		INSTALLATION KIT: MX-1838VRC F/KY-57 W/AN/VRC-46 IN M151A1	1	1	1	
301	C		KITCHEN FIELD TRAILER MOUNTED: MTD ON M103A3 TRAILER	1	1	1	
301	B		LAUNCHER GRENADE 40 MILLIMETER: SOLE SHOT RIFLE MTD DITCHABLE W/	2	2	2	
301	A		MACHINE GUN CALIBER .50: M8 FLEXIBLE (GROUND AND VEHICLE) W/E	1	1	1	
301	B		MASK CBR: PROTECTIVE FIELD	77	77	73	
301	A		MOUNT GUN: RING CAL .50	1	1	1	
301	A		NIGHT VISION GOOGLES: AN/PVS-5	1	1	1	
301	A		NIGHT VISION SIGHT INDIVIDUAL SERVED WEAPON: AN/PVS-4	1	1	1	
301	A		PISTOL CALIBER .45 AUTOMATIC:	1	1	1	
301	B		RADIAC SET: AN/PDR-27	1	1	1	
301	B		RADIAC SET: IM-93/UD	2	2	2	
301	B		RADIAC SET: IM-174/PO	1	1	1	
301	A		RADIO SET: AN/VRC-46	1	1	1	
301	A		RADIO SET CONTROL GROUP: AN/GRA-39	1	1	1	
301	C		RANGE OUTFIT FIELD GASOLINE:	2	2	2	
301	B		REELING MACHINE CABLE HAND: RL-31	1	1	1	
301	B		REELING MACHINE CABLE HAND: RL-39	1	1	1	
301	A		RIFLE 5.56 MILLIMETER: W/E	1	1	1	
301	A		SPEECH SECURITY EQUIPMENT: TSEC/KY-57	76	76	72	
301	A		SWITCHBOARD TELEPHONE MANUAL: SB-22/PT	1	1	1	
301	A			1	1	1	

PAID 32 PREPARED UN DATE 830325 2234 MRS SECTION III EQUIPMENT ALLOWANCE 06125HFCOB FC1084

PARA	LIN	ERC	PLIER	MULTI-	NOMENCLATURE	SUB-UNIT		PARENT-UNIT		PARENT-UNIT		RMKS
						LINE	TOTAL	REQ	AUTH	LINE	TOTAL	
301	V31111	A			TELEPHONE SET: TA-312/PT	6	6	6	6			
301	V98188	A			POWER SUPPLY: VEHICLE HYP57/TSEC	1	1	1	1			
301	W32193	B			SHOP EQUIPMENT AUTO MAINT AND REPAIR: OM COMMON NO 1 LESS POWE	1	1	1	1			
301	W32004	B			TOOL KIT GENERAL MECHANICS: AUTOMOTIVE	4	4	4	4			
301	W34648	B			TOOL KIT CARPENTERS: ENGINEER SQUAD W/CHEST	1	1	1	1			
301	W51910	B			TOOL KIT SMALL ARMS REPAIRMAN: ORDNANCE	1	1	1	1			
301	W60151	A			WIRELINE ADAPTER: HVX-57/TSEC	2	2	2	2			
301	W95911	B			TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	1	1	1			
301	W98825	B			TRAILER TANK: WATER 400 GALLON 1-1/2 TON 2 WHEEL W/E	1	1	1	1			
301	X40009	A			TRUCK CARGO: 2-1/2 TON 6X6 W/E	2	2	2	2			
301	X40146	A			TRUCK CARGO: 2-1/2 TON 6X6 W/MINCH W/E	1	1	1	1			
301	X60433	A			TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	1	1			
301	V34027	C			WATCH WRIST: NON MAINTAINABLE	5	5	5	5			
302					BATTALION SUPPLY SEC							
302	C68719	A			CABLE TELEPHONE: WD-1/TT DR-B 1220 FT	1	1	1	1			
302	C89145	B			CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	16	16	16	16			760
302	C89213	B			CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	16	16	16	16			762
302	L44595	B			LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD DITCHBLE W/	1	1	1	1			
302	R59140	B			REELING MACHINE CABLE HAND: RL-39	1	1	1	1			
302	V12141	A			TANK AND PUMP UNIT LIQUID DISPENSING TRUCKMOUNTING:	2	2	2	2			
302	V19750	A			TANK UNIT LIQUID DISPENSING TRAILER MOUNTING:	2	2	2	2			
302	V31211	A			TELEPHONE SET: TA-312/PT	2	2	2	2			
302	W95811	B			TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	4	4	4	4			
302	X40009	A			TRUCK CARGO: 2-1/2 TON 6X6 W/E	2	2	2	2			
302	X40031	A			TRUCK CARGO: 5 TON 6X6 LWB W/E	2	2	2	2			
303					BATTALION MAINT SEC							
303	A56243	B			ANALYZER SET ENGINE: PORTABLE SOLID STATE (STE/ICEPM)	1	1	1	1			
303	C62375	B			CASE: BATTERY 2-A1J/TSEC	1	1	1	1			
303	C68719	A			CABLE TELEPHONE: WD-1/TT DR-B 1220 FT	2	2	2	2			
303	C89145	B			CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	16	16	16	16			760
303	C89213	B			CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	16	16	16	16			762
303	E69242	B			COMP UNIT RCP: AIR REC GAS DRVN 15 CFM 175 PSI	1	1	1	1			
303	J43918	B			GEN ST GAS ENG: 1 SKW 60HZ 1PH 2 WIRE AC 120V SHOCK TAC UTILITY	2	2	2	2			
303	J46110	B			GEN ST GAS ENG: 3KW DC 28V SKD-SHK TBLR FRAME MTD TAC UTILITY	2	2	2	2			
303	K24462	C			HEATER DUCT TYPE PTBL: GAS 250000 BTU WHL MTD	1	1	1	1			
303	K87143	A			INSTALLATION KIT: MK-1234/G F/AN/VRC-46 53 64 GRC125 160 IN M1	1	1	1	1			

PAGE 33		SECTION 111 EQUIPMENT ALLOWANCE		O6125H#FC08		FC1084	
PREPARED ON DATE 830325		2234 HRS.					
PARA LIN	ERC PLIER	MULTI- NOMENCLATURE	SUP-UNIT LINE TOTAL RTO AUTH	PARENT-UNIT LINE TOTAL REQ AUTH	PARENT-UNIT NET CHANGE REQ AUTH	RMRKS	
303	A	INSTL KIT: MK-1842VRC F/KY-57 W/AN/GRC-1600R AN/VRC-64 IN M151	1	1	1		
303	B	LAUNCHER GRENADE 40 MILLIMETER: SGLE SHOT RIFLE MTD D:CHBLE W/	1	1	1		
303	B	LIGHT SET GENERAL ILLUMINATION: 25 OUTLET (ARMY)	1	1	1		
303	B	MULTIMETER: AN/URN-105	1	1	1		
303	B	CHARGER BATTERY: 12 AND 24 V CHARGING 28V DC OPER ROMT	2	2	2		
303	A	RADIO SET: AN/GRC-140	1	1	1		
303	B	REELING MACHINE CABLE HAND: RL-39	1	1	1		
303	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	1	1	1		
303	A	TELEPHONE SET: TA-312/PT	1	1	1		
303	A	POWER SUPPLY: VEHICLE HYP57/TSEC	1	1	1		
303	B	SHOP EQUIPMENT AUTO MAINT AND REPAIR: OM COMMON NO 2 LESS POWE	1	1	1		
303	B	TOOL KIT GENERAL MECHANICS: AUTOMOTIVE	7	7	7		
303	B	TOOL KIT WELDERS:	1	1	1		
303	B	TRAILER CARGO: 1/4 TON 2 WHEEL W/E	1	1	1		
303	B	TRAILER CARGO: 1-1/2 TON 2 WHEEL W/E	1	1	1		
303	A	TRUCK CARGO: 2-1/2 TON 6X6 W/E	1	1	1		
303	A	TRUCK UTILITY: 1/4 TON 4X4 W/E	1	1	1		
303	A	TRUCK WRECKER: 5 TON 6X6 W/WINCH W/E	1	1	1		
304	B	AMMUNITION PLATOON HQ	1	1	1		
304	B	ALARM CHEMICAL AGENT AUTOMATIC: PORTABLE MANPACK	1	1	1		
304	A	CABLE TELEPHONE: WD-1/TT DR-8 1320 FT	3	3	3		
304	B	CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY	3	3	3		
304	B	CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC POLE	1	1	1		
304	C	DEMOLITION SET EXPLOSIVE: INITIATING ELECTRIC AND SEMI ELECTRI	1	1	1		
304	A	INSTL KIT: MK-1246/GRC F/AN/VRC-48 53 64 AN/GRC-125 160 IN M56	1	1	1		
304	A	INSTL KIT: MK-1843VRC F/KY-57 W/AN/VRC-64 OR AN/GRC-160 IN M56	2	2	2		
304	B	RADIOMETER: IM-93/UD	1	1	1		
304	B	RADIOMETER: IM-174/PO	1	1	1		
304	A	RADIO SET: AN/VRC-48	1	1	1		
304	B	REELING MACHINE CABLE HAND: RL-39	1	1	1		
304	A	SPEECH SECURITY EQUIPMENT: TSEC/KY-57	1	1	1		
304	A	TELEPHONE SET: TA-312/PT	1	1	1		
304	A	POWER SUPPLY: VEHICLE HYP57/TSEC	1	1	1		
304	A	TRUCK CARGO: 1-1/4 TON 6X6 W/E	2	2	2		

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PREPARED ON DATE 830328

2234 HRS.

SECTION 115 EQUIPMENT ALLOWANCE

06125HFC08

FC 1084

PARA LIN ERC PLIER MULTI- Nomenclature

3 AMMUNITION SECTIONS

305 C82375 B CASE: BATTERY 2-AIJ/TSEC  
305 C99145 B CAMOUFLAGE SCREEN SYSTEM: WOODLAND LT WT RADAR SCAT W/O SPT SY  
305 C89212 B CAMOUFLAGE SCREEN SUPPORT SYSTEM: WOODLAND/DESERT PLASTIC PILE  
305 L44195 D LAUNCHER GRENADE 40 MILLIMETER: SGL SHOT RIFLE MTD DITCHBLE W/  
305 L82386 A MACHINE GUN 7.62 MILLIMETER: LIGHT FLEXIBLE  
305 M75714 A MOUNT TRIPOD MACHINE GUN: 7.62 MILLIMETER  
305 Q38296 A RADIO SET: AN/PRC-77  
305 S01373 A SPEECH SECURITY EQUIPMENT: TSEC/KY-57  
305 W24120 A TRAILER AMMUNITION: 1-1/2 TON 2 WHEEL W/E  
305 X40794 A TRUCK CARGO: DROP SIDE 5 TON 6X6 W/E

SUB-UNIT		PARENT-UNIT		PARENT-UNIT	
LINE	TOTAL	REQ	AUTH	LINE	TOTAL
6	6	6	6	6	6
54	54	54	54	54	54
54	54	54	54	54	54
6	6	6	6	6	6
3	3	3	3	3	3
3	3	3	3	3	3
6	6	6	6	6	6
6	6	6	6	6	6
18	18	18	18	18	18
18	18	18	18	18	18

760  
762

REMARKS:

202 1 PER SEC AUTH PWR GEN REP  
212 1 PER WVEH MECH  
220 1 PER TAC COMM SYS OP/MECH  
232 FOR USE BY BN CO AND XO  
233 FOR USE BY BN CO  
760 STANDARD RMK  
762 STANDARD RMK  
800 MBI AS DIR BY CO

EQUIPMENT RECAPITULATION

LIN	ERC	DESCRIPTION	SUB-UNIT		SUB-UNIT		SUB-UNIT		PARENT UNIT	
			REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH
A03214	C	ACCESSORY OUTFIT GASO	1	1	1	1	1	1	5	5
A22486	A	AIMING CIRCLE:	1	1	3	3	0	0	10	10
A32080	B	ALARM CHEMICAL AGENT	3	3	2	2	2	2	11	11
A50243	B	ANALYZER SET ENGINE:	1	1	1	1	1	1	5	5
A71712	B	ANTENNA: AT-984/G	15	15	2	2	0	0	21	21
A79281	A	ANTENNA GROUP: OE-254	24	24	4	4	1	1	37	37
B07124	A	AXLE CABLE REEL: RL-2	4	4	1	1	0	0	7	7
B49272	A	BAYONET-KNIFE: W/SCAB	216	201	109	94	77	73	620	556
B67764	B	BINOCULAR: MODULAR CO	71	71	3	3	1	1	81	81

EQUIPMENT RECAPITULATION

LIN	ERC	DESCRIPTION	SUB-UNIT PARA 100 REQ AUTH	SUB-UNIT PARA 200 REQ AUTH	SUB-UNIT PARA 300 REQ AUTH	SUB-UNIT TOTAL REQ AUTH	PARENT UNIT TOTAL REQ AUTH
B79236	B	BLANKET SET BED:	1	0	0	1	1
C28422	C	BURNER UNIT GASOLINE	4	4	4	20	20
C40499	A	COMPUTER GROUP CLIN DI	0	1	0	3	3
C62378	B	CASE: BATTERY 2-A1J/1	132	18	9	195	195
C62753	A	CABLE ASSEMBLY TELEPH	2	0	0	2	2
C62790	A	CABLE ASSEMBLY TELEPH	4	0	0	4	4
C62719	A	CABLE TELEPHONE: WD-1	68	13	6	113	113
C62896	A	CABLE TELEPHONE: WD-1	35	7	2	58	58
C62893	A	CABLE TELEPHONE: WD-1	57	6	4	79	79
C62815	B	CAMOUFLAGE SCREEN SYS	110	86	118	486	486
C62813	B	CAMOUFLAGE SCREEN SUP	110	86	118	486	486
D20787	A	DATA DISPLAY ANTY BAT	0	1	0	3	3
D99023	B	CHARGER BATTERY: PP-1	1	0	0	1	1
E00533	B	CHARGER RADIAC DETECT	2	2	2	10	10
E48707	B	COIL TELEPHONE REPEAT	8	4	4	24	24
E63728	B	COMPASS MAGNETIC UMPO	61	11	1	95	95
E62242	B	COMP UNIT RCP: AIR RE	0	0	1	1	1
E70084	B	COMP UNIT RCP: TRK 2	1	1	1	5	5
E76868	A	COMPUTER CLIN DIRECTIO	0	1	0	3	3
E98103	A	ELEC TRANSFER KEYING	14	0	0	14	14
F16895	B	FIRE SETTER: M36	0	0	0	1	1
F82626	A	FIRE DIRECTION CENTER	1	0	0	4	4
F91480	C	DEMOLITION SET EXPLOS	0	1	1	6	6
G02204	B	DETECTING SET MINE: P	2	1	1	6	6
G02341	B	DETECTING SET MINE: P	2	1	1	6	6
G05207	B	DUPPLICATING MACHINE S	1	0	0	1	1
M01839	A	ELECTRONIC KEY GENERA	6	1	0	9	9
M02300	A	ELECTRONIC TELETYPE	2	0	0	2	2
M25843	A	FIRE DIRECTION SET AR	2	2	0	8	8
J42918	B	GEN ST GAS ENG: 1.5KV	4	2	2	12	12
J44095	B	GEN ST GAS ENG: 1.5KV	9	3	1	19	19
J45836	B	GEN ST GAS ENG: 3KV 4	0	2	0	6	6
J46110	B	GEN ST GAS ENG: 3KV D	0	0	0	2	2
J47617	A	GEN ST GAS ENG TM: SK	2	0	0	2	2
J48139	A	INSTALLATION KIT ELEC	5	1	0	8	8
K22814	B	HEADSET-MICROPHONE: H	22	3	0	31	31

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PREPARED ON DATE 820325 2234 HRS.

EQUIPMENT RECAPITULATION

ITEM	INC	DESCRIPTION	SUB-UNIT PARA 100		SUB-UNIT PARA 200		SUB-UNIT PARA 300		PARENT UNIT TOTAL	
			REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH
W74364	A	HEATER DUCT TYPE PTBL	0	0	0	0	1	1	1	1
W74365	C	HEATH IMMERSION LIQU	12	12	8	8	4	4	40	40
W74366	A	POWDER MEDIUM TONED	0	0	6	6	0	0	18	18
W74367	A	INSTALLATION KIT: NK-	1	1	0	0	0	0	1	1
W74368	A	INSTALLATION KIT: NK-	28	28	0	0	2	2	30	30
W74369	A	INSTALLATION KIT: NK-	5	5	1	1	1	1	9	9
W74370	A	INSTALLATION KIT: NK-	0	0	2	2	0	0	6	6
W74371	A	INSTALLATION KIT: NK-	4	4	0	0	0	0	4	4
W74372	A	INSTALLATION KIT: NK-	11	11	1	1	0	0	14	14
W74373	A	INSTALLATION KIT: NK-	2	2	0	0	0	0	2	2
W74374	A	INSTALLATION KIT: NK-	3	3	0	0	0	0	3	3
W74375	A	INSTALLATION KIT: NK-	9	9	0	0	1	1	10	10
W74376	A	INSTALLATION KIT: NK-	11	11	1	1	0	0	14	14
W74377	A	INSTALLATION KIT: NK-	3	3	0	0	0	0	3	3
W74378	A	INSTALLATION KIT: NK-	19	19	0	0	1	1	20	20
W74379	A	INSTALLATION KIT: NK-	1	1	0	0	1	1	2	2
W74380	A	INSTALLATION KIT: NK-	1	1	0	0	1	1	6	6
W74381	A	INSTALLATION KIT: NK-	0	0	2	2	0	0	7	7
W74382	A	INSTALLATION KIT: NK-	4	4	1	1	0	0	4	4
W74383	A	INSTALLATION KIT: NK-	4	4	0	0	0	0	4	4
W74384	A	INSTALLATION KIT: NK-	2	2	0	0	0	0	2	2
W74385	C	KITCHEN FIELD TRAILER	1	1	1	1	1	1	5	5
W74386	A	LAUNCHER GRENADE 40 M	38	38	0	0	0	0	38	38
W74387	B	LAUNCHER GRENADE 40 M	25	25	7	7	10	10	56	56
W74388	B	LIGHT SET CHANT FIELD	0	0	1	1	0	0	3	3
W74389	C	LIGHT SET GENERAL ILL	3	3	2	2	1	1	10	10
W74390	C	LOCKING DEVICE ATOMIC	1	1	0	0	0	0	1	1
W74391	A	MACHINE GUN CALIBER	1	1	1	1	1	1	5	5
W74392	A	MACHINE GUN 7.82 MILL	8	8	10	10	3	3	41	41
W74393	A	MASK CBR: MEADOWLAND P	10	10	0	0	0	0	10	10
W74394	B	MASK CBR: PROTECTIVE	227	210	109	94	77	73	631	565
W74395	A	MESSAGE ENTRY DEVICE	5	5	0	0	0	0	5	5
W74396	A	MESSAGE ENTRY DIGITA	39	39	0	0	0	0	39	39
W74397	C	MONITORING SET GUIDED	0	0	1	1	0	0	3	3
W74398	A	MOUNT GUN: RING CAL	1	1	1	1	1	1	5	5
W74399	A	MOUNT TRIPCO MACHINE	8	8	10	10	3	3	41	41

EQUIPMENT RECAPITULATION

LIN	ERC	DESCRIPTION	SUB-UNIT PARA 100 REQ AUTH	SUB-UNIT PARA 200 REQ AUTH	SUB-UNIT PARA 300 REQ AUTH	PARENT UNIT TOTAL REQ AUTH
M80002 B		MULTIMETER: AN/URN-10	5	2	1	12
N02758 A		NET CONTROL DEVICE NC	14	0	0	14
N04456 A		NIGHT VISION GOOGLES:	13	6	1	32
N04732 A		NIGHT VISION SIGHT IN	5	5	1	21
N04982 A		TOW-NIGHT SIGHT EQUIP	12	0	0	12
N15518 A		NIGHT VISION SIGHT TR	1	0	0	1
N23721 B		NIGHT VISION SIGHT-TR	0	2	0	6
N54691 B		CHARGER BATTERY: 12 A	0	0	2	2
N76466 B		PEDESTAL INFRARED TRA	0	0	0	3
N82364 B		PERISCOPE BATTERY COM	1	0	0	1
N96741 A		PISTOL CALIBER .45 AU	35	1	1	39
P07753 B		PLOTTING BOARD INDIRE	3	2	0	9
P09818 A		PLOTTING SET ARTILLER	2	2	0	8
P21220 A		POSITION AND AZIMUTH	1	0	0	1
P28075 A		POWER PLANT ELECTRIC:	1	0	0	1
P70517 B		PURGING KIT FIRE CONT	0	1	0	3
P70871 C		PROJECTILE ATOMIC 155	1	0	0	1
P71995 C		PROJECTILE 155 MILLIM	0	1	0	3
Q19339 B		RADIAC SET: AN/PDR-27	1	1	1	5
Q20935 B		RADIAC SET: IM-93/UD	7	4	4	23
Q21483 B		RADIAC SET: IM-174/P	4	2	2	12
Q34308 A		RADIO SET: AN/GRC-160	20	0	1	21
Q38289 A		RADIO SET: AN/PRC-77	34	10	6	70
Q53001 A		RADIO SET: AN/VRC-46	18	1	2	23
Q54174 A		RADIO SET: AN/VRC-49	11	3	0	20
Q55114 A		RADIO SET: AN/VRC-47	5	0	0	5
Q77755 A		RADIO SET CONTROL: C-	0	5	0	18
Q78282 A		RADIO SET CONTROL GRO	39	4	1	52
Q90120 A		RADIO TELETYPEWRITER	2	0	0	2
R14154 C		RANGE OUTFIT FIELD GA	2	2	2	10
R59023 B		REELING MACHINE CABLE	4	1	1	8
R59160 B		REELING MACHINE CABLE	50	10	4	84
R59434 B		REELING MACHINE CABLE	4	0	0	4
R88696 B		RESUSCITATOR-ASPIRATO	1	0	0	1
R93164 B		RADIO TEST SET: AN/PR	1	1	0	4
R94977 A		RIFLE 5.56 MILLIMETER	192	108	76	592
						526

EQUIPMENT RECAPITULATION

LIN	ERC	DESCRIPTION	SUB-UNIT PARA 100 REQ AUTH	SUB-UNIT PARA 200 REQ AUTH	SUB-UNIT PARA 300 REQ AUTH	PARENT UNIT TOTAL REQ AUTH
501373	A	SPEECH SECURITY EQUIP	104	104	17	164
583585	A	SMALL UNIT TRANSCIVE	0	0	10	30
T23963	A	TAPE TRANSPORT CARTRI	4	4	0	4
T28457	A	TARGET DESIGNATOR SET	12	12	0	12
T38720	A	TOOL KIT FIRE DIRECTI	5	5	1	8
T38970	A	TOOL KIT FIRE DIRECTI	1	1	0	1
T40405	A	TAPE READER GENERAL P	14	14	0	14
U05008	B	SPLICING KIT TELEPHON	4	4	2	10
U06145	B	SPLINT SET: TELESCOPI	1	1	0	1
U65480	B	SURGICAL INSTRUMENT A	5	5	0	5
U69063	A	SURVEYING INSTRUMENT	1	1	0	1
U69174	A	SURVEYING SET ARTILLE	1	1	0	1
U69631	A	SURVEYING SET ARTILLE	1	1	0	1
U69788	A	SURVEYING SET ARTILLE	1	1	0	1
U81707	A	SWITCHBOARD TELEPHONE	4	4	1	8
U82529	A	TANK AND PUMP UNIT LI	13	13	1	16
V12141	A	TANK UNIT LIQUID DISP.	0	0	2	2
V19950	A	TELEPHONE SET: TA-312	0	0	2	2
V29978	A	TEST SET BATTERY: AN/	0	0	0	0
V31211	A	POWER SUPPLY: VEHICLE	88	88	10	158
V69258	B	THEODOLITE SURVEY: DI	1	1	0	1
V98788	A	TOOL KIT ARTILLERY ME	70	70	3	94
W07838	A	SHOP EQUIPMENT AUTO M	2	2	0	2
W30264	B	SHOP EQUIPMENT AUTO M	0	0	0	0
W32593	B	TOOL KIT GENERAL MECH	1	1	1	3
W32730	B	TOOL KIT CARPENTERS:	1	1	1	3
W33004	B	TOOL KIT ELECTRIC EQU	5	5	11	27
W34648	B	TOOL KIT SMALL ARMS R	1	1	1	3
W37483	B	TOOL KIT SPECIAL WEAP	5	5	0	5
W51910	B	TOOL KIT WELDERS:	1	1	0	1
W52047	B	WIRELINE ADAPTER: HYX	0	0	2	2
W58075	B	TRACKER INFRARED GUID	0	0	0	0
W60351	A	TRAILER AMMUNITION: 1	78	78	18	104
W80715	B	TRAILER CARGO: 1/4 TO	3	3	0	6
W94030	A		0	0	1	1
W95409	B		28	28	1	35

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PREPARED ON DATE 870325

2234 HRS.

## SECTION III EQUIPMENT ALLOWANCE

06125HFC08 FC1084

## EQUIPMENT RECAPITULATION

LIN	ERC	DESCRIPTION	SUB-UNIT PARA 100		SUB-UNIT PARA 200		SUB-UNIT PARA 300		PARENT UNIT TOTAL	
			REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH
W95537	B	TRAILER CARGO: 3/4 TO	6	6	2	2	0	0	12	12
W95811	B	TRAILER CARGO: 1-1/2	2	2	2	2	6	6	14	14
W98825	B	TRAILER TANK: WATER 4	1	1	1	1	1	1	5	5
X00233	C	TRAINER LAUNCH EFFECT	0	0	1	1	0	0	3	3
X18673	B	TRANSMITTING SET INFR	0	0	1	1	0	0	3	3
X38961	A	TRUCK AMBULANCE: 1-1/	1	1	0	0	0	0	1	1
X39453	A	TRUCK CARGO: TACTICAL	1	1	0	0	0	0	1	1
X39940	A	TRUCK CARGO: 1-1/4 TO	15	15	2	2	2	2	23	23
X40009	A	TRUCK CARGO: 2-1/2 TO	4	4	3	3	5	5	18	18
X40144	A	TRUCK CARGO: 2-1/2 TO	1	1	1	1	1	1	5	5
X40794	A	TRUCK CARGO: DROP SID	0	0	6	6	18	18	36	36
X40831	A	TRUCK CARGO: 5 TON 6X	2	2	0	0	2	2	4	4
X40968	A	TRUCK CARGO: 5 TON 6X	0	0	6	6	0	0	18	18
X60833	A	TRUCK UTILITY: 1/4 TO	30	30	2	2	2	2	38	38
X63299	A	TRUCK WRECKER: 8 TON	0	0	0	0	1	1	1	1
Y34027	C	WATCH WRIST: NON MAIN	18	18	4	4	5	5	35	35
Z42077	B	MEDICAL EQUIPMENT SET	1	1	0	0	0	0	1	1

LAST PAGE OF SECTION III

\*\* LAST PAGE OF MODIFICATION TABLE OF ORGANIZATION AND EQUIPMENT FOR MTOE 06125HFC08 CCNUM FC1084 \*\*

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BATCH ANALYSIS REPORT  
PART IV PERSONNEL AND EQUIPMENT ANALYSIS  
BATCH NO JAN

BASE

MIDE 06125HFC08  
CCNUM FC1083  
EDATE 831216  
FA BN. 155MM TOWED (DS)

PROPOSED

MIDE 06125HFC08  
CCNUM FC1084  
EDATE 831216  
FA BN. 155MM TOWED (DS)

RECAP BY GRADE

IDENTITY	GR	MOS	ASI/LIC	BR	TOTAL BASE		TOTAL PROPOSED		TOTAL NET CHANGE		CODE
					REQ	AUTH	REQ	AUTH	REQ	AUTH	
OFFICERS	02	25A00		SC	1	1	1	0	0	-1	
GRADE TOTAL					1	1	1	0	0	-1	
OFFICERS TOTAL											
ENLISTED	E4	13B10			88	85	88	70	0	-15	
GRADE TOTAL					88	85	88	70	0	-15	
ENLISTED TOTAL					88	85	88	70	0	-15	
MILITARY TOTAL					89	86	89	70	0	-16	
UNIDENTIFIED TOTAL					0	0	0	0	0	0	
PART IV TOTAL					89	86	89	70	0	-16	

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BATCH ANALYSIS REPORT  
PART IV PERSONNEL AND EQUIPMENT ANALYSIS  
BATCH NO JAN

BASE

MTDE 08125HFC08  
CCNUM FC2083  
EDATE 830316  
FA BN. 155MM TOWED (DS)

PROPOSED

MTDE 08125HFC08  
CCNUM FC1084  
EDATE 831210  
FA BN. 155MM TOWED (DS)

RECAP BY MOS

IDENTITY	MOS	ASI/LIC	GR	BR	TOTAL BASE REQ	TOTAL PROPOSED REQ	TOTAL NET CHANGE REQ	TOTAL AUTH	CODE
OFFICERS	25A00		02	SC	1	1	0	-1	
MOS TOTAL					1	1	0	-1	
OFFICERS TOTAL					1	1	0	-1	
ENLISTED	13B10		E4		88	88	0	-15	
MOS TOTAL					88	88	0	-15	
ENLISTED TOTAL					88	88	0	-15	
MILITARY TOTAL					89	89	0	-16	
UNIDENTIFIED TOTAL					0	0	0	0	
PART IV TOTAL					89	89	0	-16	

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BATCH ANALYSIS REPORT  
PART IV PERSONNEL AND EQUIPMENT ANALYSIS  
BATCH NO JAN

BASE

MTDE 06125HFC08  
CCNUN FC2083  
EDATE 830316  
FA BN, 155MM TOWED (DS)

PROPOSED

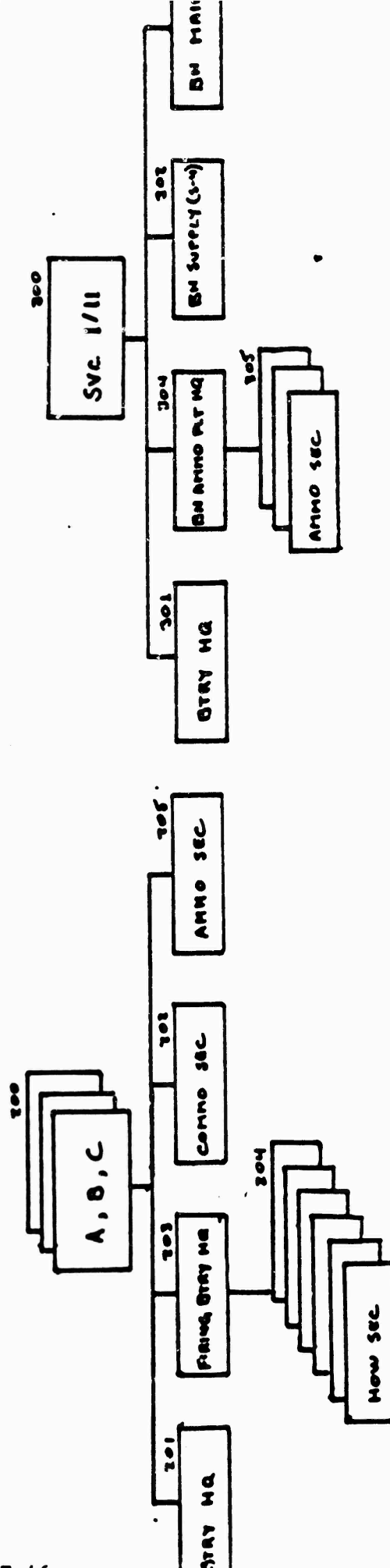
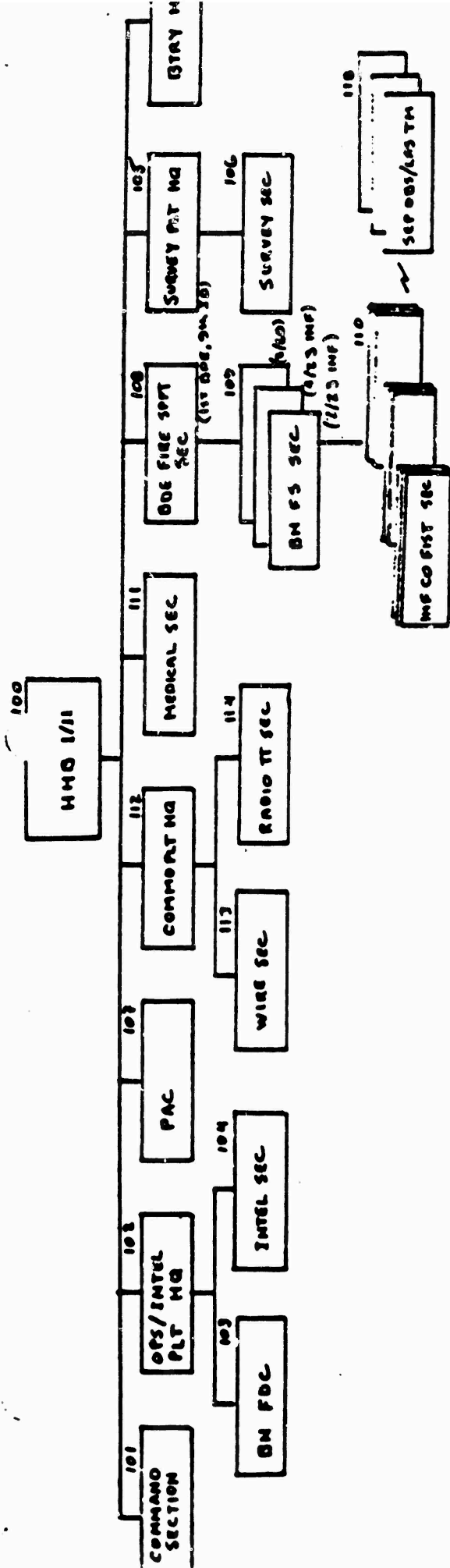
MTDE 06125HFC08  
CCNUN FC1084  
EDATE 831216  
FA BN, 155MM TOWED (DS)

RECAP BY LIN

NOMENCLATURE

P49272 BAYONET-KNIFE: W/SCABBARD FOR M16A1 RIFLE  
M11895 MASK CBN: PROTECTIVE FIELD  
P94977 RIFLE 5.56 MILLIMETER: W/E

TOTAL BASE	REQ	AUTH	TOTAL PROPOSED	REQ	AUTH	TOTAL NET CHANGE	REQ	AUTH	CODE
620	572		620	556		0	-16		
631	581		631	565		0	-16		X C
592	542		592	526		0	-16		X C



## REFERENCES

- Automated Systems Security, Army Regulation no. 380-380 (1977), Headquarters, Department of the Army, Washington, D. C.
- Chafin, R. L. (1982), Mark IV-A Command Directive Consistency Study, unpublished study for Tracking and Data Acquisition Office, Jet Propulsion Laboratory.
- Chafin, R. L. (1983), Human Factors in Applications Programming, Infosystems, June 1983.
- Company Commander and Staff Officer Handbook (1979), United States Army Infantry School, Ft. Benning, Georgia, ST 7-150-10i-5 FY 79.
- Electrom, A. G., Goehring, D. J., and Kahn, O. I. (1982a), ARTEP-Related Information Needs: ARTEP Developers; Army Research Institute Field Unit, Presidio of Monterey, California, ARI-POM Field Unit Working Paper 82-1.
- Electrom, A. G., Goehring, D. J., and Kahn, O. I. (1982b), ARTEP-Related Information Needs: Executives; Army Research Institute Field Unit, Presidio of Monterey, California, ARI-POM Field Unit Working Paper 82-2.
- Electrom, A. G., Goehring, D. J., and Kahn, O. I. (1982c), ARTEP-Related Information Needs: Training Managers; Army Research Institute Field Unit, Presidio of Monterey, California, ARI-POM Field Unit Working Paper 82-3.
- Field Artillery Cannon Battalion - TACFIRE, Coordinating Draft (1983) Army Training and Evaluation Program ARTEP 6-400-1, Headquarters, Department of the Army, Washington, D. C.
- Functional Users Manual for Division Logistics System (DLOGS) - Management Guide (1979, Headquarters, Department of the Army, Washington, D. C., Army Technical Manual TM-L22-11.
- Functional Users Manual for Division Logistics System (DLOGS) - Unit and Organization Procedures (1979), Headquarters, Department of the Army, Washington, D. C., Army Technical Manual TM-L22-12.
- Guide for the Battalion S4 (1981), Headquarters, Department of the Army, Washington, D. C., Field Manual FM 10-14-2.
- Harris, Lt. Colonel M. (1983), Notes on a series of interviews with the personnel of the 1st Battalion, 11th Field Artillery, 9th Infantry Division, Ft. Lewis Washington, July through December 1983.
- Hiller, J. H. (1982), United States Army Unit Training: Detractors and Proposed Solutions; Army Research Institute Field Unit, Presidio of Monterey, California.
- Johnson, C. A., Funk, S. L., Elliot, M. P., Meliza, L., and Hiller, J. H. (1982), Development and Implementation of Garrison Management Innovations: Army Research Institute Field Unit, Presidio of Monterey, California, Final Report on ARI contract no. MDA 903-79-C-0194.

Jones, Major T. L. (1983), Notes on an extended interview at the Army Research Institute Field Unit, Presidio of Monterey, California, May 10-11, 1983.

Livermore, Lieutenant Colonel E. (1983), Notes on an interview at the Army Research Institute Field Unit, Presidio of Monterey, California, June 30, 1983.

Military Personnel, Organization, and Type of Transaction Codes (1982), Headquarters, Department of the Army, Washington, D. C., Army Regulation AR 680-29.

Miott, Captain R. (1983), Notes on visits to computer installations at Ft. MacPhersen, Georgia, Ft. Stewart, Georgia, and Ft. Bragg, North Carolina, April 11-15, 1983.

Personnel Handbook (1980), United States Army Infantry School, Ft. Benning, Georgia, ST 600-185 FY 80.

Organizational Maintenance Manager's Guide (1982), United States Army Infantry School, Ft. Benning, Georgia, ST 7-174.

Robinson, Major S. (1983), Notes on an extended interview with personnel of the High Technology Personnel System (HTPS), Soldier Support Center, Ft. Benjamin Harrison, Indiana, June 2-3, 1983.

Soldier's Manuals for Common Tasks and MOS's 13B, C, E and F, (1983), Headquarters, Department of the Army, Washington, D. C.

Standard Installation/Division Personnel System - Military Personnel Office Level Procedures (1981), Headquarters, Department of the Army, Washington, D. C., Army Pamphlet DA Pam 600-8-2.

Standard Installation/Division Personnel System - Unit Level Procedures (1982), Headquarters, Department of the Army, Washington, D. C., Army Pamphlet DA Pam 600-8-1.

The Army Maintenance Management System (TAMMS) (1983), Headquarters, Department of the Army, Washington, D. C., Army Pamphlet DA Pam 738-750.

Training Management in Battalions (1977), Headquarters, Department of the Army, Washington, D. C., Training Circular TC-21-5-7.

Unit Status Reporting (1980), Subcourse IS0267, The Army Institute for Professional Development, Army Correspondence Course Program.

Unit Status Reporting (1981), Army Regulation No. 2201, Headquarters, Department of the Army, Washington, D. C.

Using Unit Supply System: Manual Procedures (1983), Headquarters, Department of the Army, Washington, D. C., Army Pamphlet DA Pam 710-2-1.

Whitmarsh, P. (1983), Automated Battalion Training Management System: Data Base Concept and Approach; Army Research Institute Field Unit, Presidio of Monterey, California, working paper.